

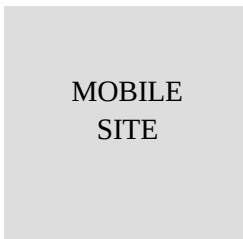
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Welcome

Thank you for visiting the 2018-2019 Cal State East Bay Catalog. This is the **final** version and **official** publication of the 2018-2019 catalog. The earlier versions (Beta & Gamma) had been published as works-in-progress so that current and potential students could plan for their programs under the new semester-based calendar. This catalog includes courses and policies approved and information provided on or before July 2, 2018.



Campus Map

Throughout the catalog, a map icon is used to display different types of maps. For example, if you click on this map icon it will take you to the Hayward Campus Map. Other map icons will take you to the maps referred to in that information page. For additional maps, see the University's Visitor Information and Maps website.

New University Policy

University Executive Directive 18-01 (Progress Toward Degree) becomes effective with this Catalog. Corresponding policy changes are incorporated herein.

Search Tools

Tips to help you quickly locate and track detail for programs and courses:

Use the **Catalog Search** box located at the top of the left navigation bar.

- Select the type of search using the drop down arrow.
 - Courses
 - Programs
 - Hierarchy Items
 - Other Content
 - Entire Catalog
- Enter a keyword in the "Search Catalog" box.
 - Using the Whole Word/Phrase is like adding the "quotes" to further hone your search.
 - Click on the magnifying glass to begin your search.
- Or use the Advanced Search link to broaden your search parameters, or to further narrow your course search utilizing the "Show Prefix List" link.

Catalog Icons

Degree Planner -
Print-friendly checklist
of degree
requirements.

Add to Folder - Add
catalog content to your
MyFolder.

Social Media - Share
catalog content on
Facebook or Twitter.

Print-Friendly Page -
Pop-up page formatted
for readable print.

Help - More
information on how to
use the catalog.

Changes on Rules and Policies

Although every effort has been made to assure the accuracy of the information in this catalog, students and others who use this catalog should note that laws, rules, and policies change from time to time and that these changes may alter the information contained in this publication. Changes may come in the form of statutes enacted by the Legislature, rules and policies adopted by the Board of Trustees of the California State University, by the chancellor or designee of the California State University, or by the president or designee of the campus. It is not possible in a publication of this size to include all of the rules, policies and other information that pertain to students, the institution, and the California State University. More current or complete information may be obtained from the appropriate department, school, or administrative office.

Nothing in this catalog shall be construed as, operate as, or have the effect of an abridgment or a limitation of any rights, powers, or privileges of the Board of Trustees of the California State University, the chancellor of the California State University, or the president of the campus. The trustees, the chancellor, and the president are authorized by law to adopt, amend, or repeal rules and policies that apply to students. This catalog does not constitute a contract or the terms and conditions of a contract between the student and the campus or the California State University. The relationship of students to the campus and the California State University is one governed by statute, rules, and policy adopted by the legislature, the trustees, the chancellor, the presidents and their duly authorized designees.

Suggestions

We are always seeking new ways to enhance and improve Cal State East Bay's catalog experience and we'd like to hear what you think about our efforts. Please send an email to our catalog editors with any suggestions or ideas you would like to share with us.

About the CSU

- About the CSU System
- CSU Campuses
- CSU Facts
- CSU Historical Milestones
- CSU International Programs
- Governance
- Office of the Chancellor
- Trustees

Welcome to the California State University (CSU)

Welcome to the California State University (CSU) - the nation's largest comprehensive higher education system with 23 unique campuses serving approximately 484,000 students with more than 50,800 faculty and staff.

Each year, the university awards more than 120,000 degrees. CSU graduates are serving as leaders in the industries that drive California's economy, including business, agriculture, entertainment, engineering, teaching, hospitality and healthcare. Learn more at www.calstate.edu.

A Tradition of Excellence for More than Five Decades

Since 1961, the CSU has provided an affordable, accessible, and high-quality education to more than 3.4 million graduates throughout California. While each campus is unique based on its curricular specialties, location and campus culture, every CSU is distinguished for the quality of its educational programs. All campuses are fully accredited, provide a high-quality broad liberal educational program and offer opportunities for students to engage in campus life through the Associated Students, Inc., clubs and service learning. Through leading-edge programs, superior teaching and extensive workforce training opportunities, CSU students graduate with the critical thinking skills, industry knowledge and hands-on experience necessary for employment and career advancement.

CSU Facts

- In 2015-16, the CSU received \$579 million in research and education grants and contracts by federal, state, and regional agencies.
- Today, one of every 20 Americans with a college degree is a CSU graduate.
- 1 in every 10 employees in California is a CSU alumnus.
- The CSU awards 45 percent of the bachelor's degrees earned in California.
- More than half of all the nurses in the state earn their degrees from the CSU.
- The CSU awards 95 percent of the hospitality/tourism degrees in the state.
- Nearly half of all of the state's engineers earn their degrees from the CSU.
- The CSU is the leading provider of teacher preparation programs in the state.
- The CSU offers more than 124 fully online and 91 hybrid degree programs and concentrations.

- The CSU offers OVER 3,800 online courses per term providing more educational options to students who may prefer an online format to a traditional classroom setting.
- The CSU's online concurrent enrollment program gives students the ability to enroll in courses offered by other campuses in the CSU.
- Over the past four years, the CSU has issued nearly 50,000 professional development certificates in education, health services, business and technology, leisure and hospitality, manufacturing, international trade, and many other industries.
- Nearly half of the CSU's 484,000 students are engaged in some type of community service, totaling 32 million hours of service annually.
- More than 13,000 students participate in STEM (science, technology, engineering, and mathematics) service-learning courses.
- For every \$1 that the state invests in the CSU, the university generates \$5.43 for California's economy.

CSU Historical Milestones

The individual California State Colleges were established as a system with a Board of Trustees and a Chancellor in 1960 by the Donahoe Higher Education Act. In 1972, the system was designated as the California State University and Colleges, and in 1982 the system became the California State University. Today, the CSU is comprised of 23 campuses, including comprehensive and polytechnic universities and, since July 1995, the California Maritime Academy, a specialized campus.

The oldest campus-San José State University-was founded in 1857 and became the first institution of public higher education in California. The newest-CSU Channel Islands-opened in fall 2002, with freshmen arriving in fall 2003.

In 1963, the Academic Senate CSU was established to act as the official voice of CSU faculty in systemwide matters. Also, the California State College Student Presidents Association-which was later renamed the California State Student Association-was founded to represent each campus student association on issues affecting students.

Through its many decades of service, the CSU has continued to adapt to address societal changes, student needs and workforce trends. While the CSU's core mission has always focused on providing high-quality, affordable bachelor's and master's degree programs, over time the university has added a wide range of services and programs to support student success - from adding health centers and special programs for veterans to building student residential facilities to provide a comprehensive educational experience.

To improve degree completion and accommodate students working full- or part-time, the educational paradigm was expanded to give students the ability to complete upper-division and graduate requirements through part-time, late afternoon, and evening study. The university also expanded its programs to include a variety of teaching and school service credential programs, specially designed for working professionals.

The CSU marked another significant educational milestone when it broadened its degree offerings to include doctoral degrees. The CSU independently offers Doctor of Education (Ed.D.), Doctor of Physical Therapy (DPT), Doctor of Audiology (AuD) and Doctor of Nursing Practice (DNP) degree programs. A

limited number of other doctoral degrees are offered jointly with the University of California and private institutions in California.

In 2010, in an effort to accommodate community college transfer students, the CSU, in concert with the California Community Colleges (CCC), launched the Associate Degree for Transfer (ADT), which guarantees CCC transfer students with an ADT admission to the CSU with junior status.

Always adapting to changes in technology and societal trends to support student learning and degree completion, the CSU achieved another milestone in 2013, when it launched Cal State Online, a systemwide collection of services that support the delivery of fully online programs from campuses. Now, full-time students have access to fully online courses offered at other CSU campuses.

By providing an accessible, hands-on education that prepares graduates for career success, the CSU has created a network of alumni that is so extensive and renowned that it spans across the globe. As of 2016-17, more than 3.4 million CSU alumni are making a difference in the lives of the people of California and the world.

The CSU strives to continually develop innovative programs, services and opportunities that will give students the tools they need to meet their full potential. In 2016, the university launched Graduation Initiative 2025, a bold plan to support students, increase the number of California's graduates earning high-quality degrees and eliminate achievement and equity gaps for all students. Through this initiative, the CSU is ensuring that all students have the opportunity to graduate according to their personal goals, positively impacting their lives, families and communities. The CSU is committed to providing a quality higher education that prepare students to become leaders in the changing workforce.

CSU Campuses

Map shows campus locations throughout California; click on each campus link for their *individual websites:

S - Semester System

Q - Quarter System

- California State University, Bakersfield (S)
- California State University, Channel Islands (S)
- California State University, Chico (S)
- California State University, Dominguez Hills (S)
- California State University, East Bay (S)
- California State University, Fresno (S)
- California State University, Fullerton (S)
- Humboldt State University (S)
- California State University, Long Beach (S)
- California State University, Los Angeles (S)
- California State University, Maritime Academy (S)
- California State University, Monterey Bay (S)
- California State University, Northridge (S)
- California State Polytechnic University, Pomona (S)
- California State University, Sacramento (S)
- California State University, San Bernardino (Q)

- San Diego State University (S)
- San Francisco State University (S)
- San José State University (S)
- California Polytechnic State University, San Luis Obispo (Q)
- California State University, San Marcos (S)
- Sonoma State University (S)
- California State University, Stanislaus (S)

*Individual websites contain the most current contact information for that campus.

The California State University International Programs

Developing intercultural communication skills and international understanding among its students is a vital mission of The California State University (CSU). Since its inception in 1963, the CSU International Programs (CSU IP) has contributed to this effort by providing qualified students an affordable opportunity to continue their studies abroad for a full academic year. More than 20,000 CSU students have taken advantage of this unique study option.

International Programs participants earn resident academic credit at their CSU campuses while they pursue full-time study at a host university or study center abroad. CSU IP serves the needs of students in more than 100 designated academic majors. Affiliated with more than 50 recognized universities and institutions of higher education in 18 countries, CSU IP also offers a wide selection of study abroad destinations and learning environments.

Australia - Griffith University, Macquarie University, Queensland University of Technology, University of Queensland, Western Sydney University

Canada - Concordia University

Chile - Pontificia Universidad Católica de Chile

China - Peking University (Beijing)

Denmark - Danish Institute for Study Abroad

France - Institut Catholique de Paris, Institut Supérieur d'Electronique de Paris, Université d'Aix-Marseille (Aix-en-Provence), Université de Cergy-Pontoise, Universités de Paris I, III, IV, VI, VII, VIII, X, XI, XII, XIII, Université Paris-Est Marne-la-Vallée, Université d'Evry Val d'Essonne, Université de Versailles Saint-Quentin-en-Yvelines

Germany - University of Tübingen and a number of institutions of higher education in the Federal state of Baden-Württemberg

Ghana - University of Ghana

Israel - University of Haifa

Italy - CSU Florence Study Center, Accademia di Belle Arti Firenze

Japan - Waseda University, University of Tsukuba

Mexico - Instituto Tecnológico y de Estudios Superiores de Monterrey, Campus Querétaro

South Africa - Nelson Mandela Metropolitan University

South Korea - Yonsei University

Spain - Universidad Complutense de Madrid, Universidad de Granada, Universidad de Jaén

Sweden - Uppsala University

Taiwan - National Taiwan University

United Kingdom - University of Bradford, University of Bristol, University of Hull, Kingston University, Swansea University

Students participating in CSU IP pay CSU tuition and program fees, and are responsible for airfare, accommodations, meals and other personal expenses. Financial aid, with the exception of Federal Work-Study, is available to qualified students and limited scholarship opportunities are also available. All programs require students to maintain good academic and disciplinary standing many programs are open to sophomores or graduate students. California Community College transfer students are eligible to apply (to select programs) directly from their community colleges. Students must possess a current cumulative grade point average of 2.75 or 3.0, depending on the program, and must fulfill all coursework prerequisites. Additional program information and application instructions can be found on our website at www.calstatele.edu/ip.

Governance

The system is governed by the Board of Trustees, most of whom are appointed by the governor and serve with faculty and student representatives. The CSU Chancellor is the chief executive officer, reporting to the Board. The campus presidents serve as the campus-level chief executive officers. The Trustees, Chancellor and presidents develop systemwide educational policy. The presidents, in consultation with the Academic Senate CSU and other campus stakeholder groups, render and implement local policy decisions.

Office of the Chancellor

Dr. Timothy P. White - Chancellor

Mr. Steve Relyea - Executive Vice Chancellor and Chief Financial Officer

Dr. Loren J. Blanchard - Executive Vice Chancellor, Academic and Student Affairs

Mr. Andrew Jones - Executive Vice Chancellor, General Counsel

Mr. Garrett P. Ashley - Vice Chancellor, University Relations and Advancement

Ms. Melissa Bard - Vice Chancellor, Human Resources

Mr. Larry Mandel - Vice Chancellor and Chief University Auditor

The California State University
401 Golden Shore
Long Beach, California 90802-4210

(562) 951-4000

Trustees of the California State University

Ex Officio Trustees

The Honorable Edmund G. Brown, Jr., Governor of California

The Honorable Gavin Newsom, Lieutenant Governor of California

The Honorable Anthony Rendon, Speaker of the Assembly

The Honorable Tom Torlakson, State Superintendent of Public Instruction

Dr. Timothy P. White, Chancellor of The California State University

Officers of the Trustees

The Honorable Edmund G. Brown, Jr. - President

Rebecca D. Eisen - Chair

Andrew Jones - Secretary

Steve Relyea - Treasurer

Appointed Trustees

Appointments are for a term of eight years, except student, alumni, and faculty trustees whose terms are for two years. Terms expire in the year in parentheses. Names are listed alphabetically.

Silas Abrego (2021)

Jane W. Carney (2022)

Adam Day (2023)

Rebecca D. Eisen (2018)

Douglas Faigin (2017)

Debra S. Farar (2022)

Jean P. Firstenberg (2018)

Emily Hinton (2019)

Lillian Kimbell (2024)

Thelma Meléndez de Santa Ana (2017)

Hugo N. Morales (2020)

John Nilon (2018)

J. Lawrence Norton (2019)

Jorge Reyes Salinas (2018)

Romey Sabalius (2019)

Lateefah Simon (2019)

Peter J. Taylor (2021)

Correspondence with Trustees should be sent to: c/o Trustees Secretariat, The California State University,
401 Golden Shore, Long Beach, California 90802-4210.

President's Message

As president of Cal State East Bay, I am pleased to welcome you to our vibrant and exciting university. Whether you are taking courses on campus or online, you will find our faculty and staff to be dedicated to your success. Cal State East Bay gives you a choice of learning communities, convenient locations, and academic programs, each designed to meet your needs. Take advantage of the unique experiences we offer, such as opportunities to conduct research with faculty, engage in service learning and pursue artistic and creative efforts.

The catalog is your official guide to our academic programs and contains important information about university policies and procedures. Explore your program of interest among the 80 bachelor's and master's degrees and 30 credential and certificate programs offered. If you are considering an educational doctorate, we offer a program in Leadership for Social Justice, designed for leaders planning to transform the world of education. Our campuses are located in Hayward and Concord and we house a professional development center in downtown Oakland.

In August, we begin semester courses on our campus. The change will align our calendar with other CSU campuses, community colleges and more than 90% of colleges and universities nationwide. The four year process of adapting to the semester calendar allowed us to examine the curriculum in its entirety and transform our programs to ensure we are preparing you for meaningful lifework.

Welcome to Cal State East Bay and Go Pioneers!

Leroy M. Morishita
President
California State University, East Bay

Cal State East Bay at a Glance

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- Intercollegiate Athletics, Instruction, Intramural, and Recreational Programs
- Pioneer Bookstore
- Business & Economics Special Facilities
- Science Facilities
- Recreation and Wellness Center (RAW)
- The University Unions

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- The Oakland Center
- The University Police Department
- The Office of Prospective Student Services
- Housing & Residence Life
- Student Health & Counseling Services
- Cashiering
- Greek Life
- Campus Parking & Transportation Services
- Moss Landing Marine Laboratories
- University Extension
- Cal State East Bay Educational Foundation

California State University, East Bay

Cal State East Bay is a comprehensive four-year institution that enrolls more than 15,000 students and offers undergraduate and graduate programs in a wide range of disciplines. Its spacious 342-acre

Hayward campus, situated in the rolling hills above San Francisco Bay, offers students and visitors panoramic views of the bay and bridges, as well as the vibrant cities and open space that surround the campus. With its wide expanses of lawns, tree-lined walkways, fountains, and beds of native California plants, the campus is one of the most beautiful in the CSU system. The University is recognized as a "Best in the West" college and a Best Business School by the *Princeton Review* and as a "top-tier" masters-granting university by *U.S. News & World Report* in its "America's Best Colleges" guide.

University Mission, Shared Strategic Commitments, and Institutional Learning Outcomes

Cal State East Bay takes pride in its eight Shared Strategic Commitments, which express the University's values and aspirations:

1. Reinforce academic quality through open-minded inquiry, innovative teaching, engaged learning, and distinguished scholarship.
2. Enhance our inclusive campus, responding to the backgrounds and interests of our diverse community and promoting their academic, professional and personal development.
3. Serve students first, by expanding access and enhancing each student's educational experience and prospects for success as a graduate and life-long learner.
4. Foster a vibrant community through enriched student services and student life that support student engagement and learning.
5. Contribute to a sustainable planet through our academic programs, university operations, and individual behavior.
6. Continuously improve our efficiency, transparency, and accountability while practicing mutual respect, responsiveness, and collaboration across the University.
7. Support the civic, cultural, and economic life of all communities in the regions we serve through partnerships that promote education and social responsibility.
8. Demonstrate our continuing record of leadership and innovation in higher education, focused on 21st century skills, including science, technology, engineering, and mathematics (STEM).

Institutional Learning Outcomes

Using competencies developed through general education, their scholarly disciplines and co-curricular activities, graduates of CSUEB will be able to achieve the following outcomes:

- *Thinking and Reasoning*
 - Think critically and creatively and apply analytical and quantitative reasoning to address complex challenges and everyday problems.
- *Communication*
 - Communicate ideas, perspectives, and values clearly and persuasively while listening openly to others.
- *Diversity*
 - Apply knowledge of diversity and multicultural competencies to promote equity and social justice in our communities.
- *Collaboration*

- Work collaboratively and respectfully as members and leaders of diverse teams and communities.
- *Sustainability*
 - Act responsibly and sustainably at local, national, and global levels.
- *Specialized Education*
 - Demonstrate expertise and integration of ideas, methods, theory and practice in a specialized discipline of study.

University Accreditation

Cal State East Bay is accredited by the Western Association of Schools and Colleges Senior College and University Commission (WASCUC), 985 Atlantic Avenue, Suite 100, Alameda, CA 94501; phone: (510) 748-9001. The Commission is an institutional accrediting agency recognized by the U.S. Department of Education and is periodically reviewed by the Council for Higher Education Accreditation (CHEA).

- The B.A. and M.A. in Music are accredited by the National Association of Schools of Music.
- The master's program in Speech-Language Pathology is accredited by the Council on Academic Accreditation in Audiology and Speech-Language Pathology of the American Speech-Language-Hearing Association, 2200 Research Boulevard #310, Rockville, Maryland 20850, (800) 498-2071 or (301) 296-5700.
- The undergraduate and graduate programs in the College of Business and Economics are accredited by the Association to Advance Collegiate Schools of Business (AACSB International).
- All of the University's programs for teaching and services credentials are approved by the California State Commission for Teacher Credentialing.
- The School Psychology credential program has received full approval from the National Association of School Psychologists.
- The B.S. in Chemistry is approved by the American Chemical Society.
- The B.S. in Nursing is accredited by the Commission on Collegiate Nursing Education, One Dupont Circle, NW, Suite 530, Washington, DC 20036, (202) 887-6791 and the California State Board of Registered Nursing.
- The B.S. in Industrial Engineering and the B.S. in Computer Engineering are accredited by the Engineering Accreditation Commission of ABET, <http://www.abet.org>.
- The Master of Social Work is accredited by the Council on Social Work Education.
- The Continuing Education certificate program in Paralegal Studies is approved by the American Bar Association (ABA).
- The Continuing Education certificate program in Chemical Dependency is accredited by the California Association of Alcoholism and Drug Abuse Counselors (CAADAC).
- The Continuing Education certificate program in Human Resource Management is approved by the Human Resource Certification Institute (HRCI) for recertification hours.
- The Continuing Education certificate program in Project Management is approved by the Project Management Institute (PMI).

Institutional Assistance Information

Financial Assistance Information

Information regarding Financial Aid is available from the Enrollment Information Center in the first floor lobby of the Student Services and Administration building, or at (510) 885-2784.

Information regarding Financial Services is available the Student Financial Services Manager, Flo Olney, at (510) 885-3767.

Students with Disabilities Information

Information regarding special facilities and services available to students with disabilities may be obtained from: <http://www.csueastbay.edu/af/departments/as/>

Title IX Information

Information concerning Cal State East Bay policies, procedures, and facilities for students and other to report criminal actions or other emergencies occurring on campus may be obtained from: CSUEB Title IX Coordinator; Terri Labeaux, Risk Management and Internal Control, (510) 885-4918.

Campus Security Information

Information concerning Cal State East Bay annual campus security report and annual fire safety report may be obtained from: <http://www.csueastbay.edu/af/departments/upd/>

Drug & Alcohol Prevention Information

Information concerning the prevention of drug and alcohol abuse and rehabilitation programs may be obtained from: <http://www.csueastbay.edu/students/campus-life/shcs/atod/>

Student Retention Information

Information regarding student retention and graduation rates at Cal State East Bay and, if available, the number and percentage of students completing the program in which the student is enrolled or has expressed interest may be obtained from: <http://www.csueastbay.edu/ir/>

Athletic Opportunities Information

Information concerning athletic opportunities available to male and female students and the financial resources and personnel that Cal State East Bay dedicates to its men's and women's teams may be obtained from: <http://www.eastbaypioneers.com/staff.aspx>

Teacher Preparation Information

Information concerning teacher preparation programs at Cal State East Bay, including the pass rate on teacher certification examinations, may be obtained from: <http://www.csueastbay.edu/stemed/teacher-prep/requirements/credential/>

Student Grievance Information

Information concerning grievance procedures for students who feel aggrieved in their relationships with the University, its policies, practices and procedures, or its faculty and staff may be obtained from: James Carroll, Director of Student Conduct, Rights and Responsibilities, (510) 885-3763, <http://www.csueastbay.edu/studentconduct/>.

Student Activities Information

Information concerning student activities that Cal State East Bay provides, is accessible on: <http://www.csueastbay.edu/prospective/campus-life/>

Diversity Information

Information concerning student body diversity at Cal State East Bay, including the percentage of enrolled, full-time students who are (1) male, (2) female, (3) Pell Grant recipients, and (4) self-identified members of a specific racial or ethnic group, may be obtained from: Student Affairs, (510) 885-3646 (studentaffairs@csueastbay.edu)

Note: See also the Fees & Financial Services and the Military & Veterans Information & Services chapters in this catalog for more information.

Assessment for Continuous Improvement

Cal State East Bay is committed to continuous improvement. Students, faculty and staff are asked to participate in learning assessments at the course, program, and university levels. The information used for assessment includes individual student work (assignments, essays, exams, projects, etc.), in addition to surveys and other indirect methods.

In order to assess the overall educational effectiveness of programs and the University, student work at Cal State East Bay is used on an aggregated basis to provide information for program improvement, as well as to demonstrate accountability to various stakeholders, including our students, the general public, and our accrediting agencies.

Students at Cal State East Bay should expect that their academic work may be used for assessment purposes.

Semester System

Beginning in the 2018-2019 academic year, Cal State East Bay began operating on the semester system. Each semester (fall, spring) is approximately 15 weeks in length (15 weeks of instruction, plus 1 week of final exams). Enrollment in a semester after admission to the University constitutes matriculation, including enrollment in all Special Session courses. (Special Session courses are groups of self-support courses which have been approved to confer residence credit, with the exception of Open University courses.) Enrollment in Open University courses, as well as in Continuing Education courses, does not constitute matriculation.

One (1) semester unit is equivalent to one and one-half (1 1/2) quarter units of credit. One (1) quarter unit is equivalent to two-thirds (2/3) of a semester unit.

Bay Area Points-of-Interest

In addition to its own facilities, activities, and intramural sports, Cal State East Bay's campuses are close to San Francisco and other Bay Area cities that provide unique cultural opportunities including museums, libraries, art galleries, aquariums, planetariums, theater, sports events, and concerts.

Hiking trails are near both campuses. The extensive Garin and Dry Creek-Pioneer East Bay Regional Parks are located immediately southeast of the Hayward campus. Beautiful Mt. Diablo and the Lime Ridge open space are adjacent to the Concord campus. In addition, proximity to the Pacific Ocean and Sierra Nevada mountains offers recreational diversion as well as excellent laboratories for educational studies.

The main Hayward Campus location is nearby these exciting points-of-interest:

- San Francisco Bay--campus overlooks the Bay and region from the East Bay hills
- Pacific Coast--45 minutes west
- San Francisco, Berkeley, Oakland, Walnut Creek, and Concord--30 to 45 minutes northeast and northwest via BART (Bay Area Rapid Transit) trains and freeways
- Lake Tahoe and Yosemite Valley--four hours northeast and east
- Napa and Sonoma Valleys--one hour north
- Sacramento, the state capital--one and one-half hours northeast
- Santa Cruz beaches and Monterey Peninsula--two hours south
- San Jose and the Silicon Valley--30 to 45 minutes south via freeways

Bay Area's Regional Transit (BART)

Since the humble beginning of a rapid transit idea in 1946, San Francisco Bay Area Rapid Transit Commission, comprised of representatives from each of the nine counties which touch the Bay determined that any transportation plan must be coordinated with the area's total plan for future development. Since no development plan existed, the Commission prepared one itself. The result of their thoroughness is a master plan which did much to bring about coordinated planning in the Bay Area, and which was adopted a decade later by the Association of Bay Area Governments (ABAG). The Commission's least-cost solution to traffic tie-ups was to recommend forming a five-county rapid transit district, whose mandate would be to build and operate a high-speed rapid rail network linking major commercial centers with suburban sub-centers. For further information, use the BART website: <https://www.bart.gov/>

C.E. Smith Museum of Anthropology

The Clarence E. Smith Museum of Anthropology was established in 1974 and opened its exhibition gallery in 1979. Chartered as a teaching museum for the instruction of museology in an anthropological context, the Museum is named in honor of the late Professor Clarence Smith of the Department of Anthropology. The Museum strives to demonstrate human diversity and the range of human achievement throughout the world with both traditional cultural forms and their contemporary expressions and influences. Recognizing the value of material culture, exhibits use art and artifacts to illustrate all aspects of human culture from around the world, features of culture change, and technological as well as biological evolution.

The exhibition galleries of the Museum are located in the southeast corner of the fourth floor of Meiklejohn Hall on the Hayward Hills campus. They are open to the public during exhibitions, Monday through Friday, and by appointment. Admission to the galleries is free. Access to the collections is limited to qualified professionals and students whose scholarly research requires direct examination of the Museum's holdings. Consult with the Museum's Assistant Director for a current list of artifacts held. The staff and director's office is located on the fourth floor (MI 4038) of Meiklejohn Hall. Consultations are given by appointment. For information on exhibits and appointments, call the Museum at (510) 885-3104 or (510) 885-3168, Monday through Friday, 8:00 a.m. to 5:00 p.m.

Campus Art Galleries & Cultural Activities

The Hayward Hills campus enjoys two exhibition spaces which make it possible to mount shows of varying size and significance.

The University Art Gallery

Located in AE 106, the Gallery, which commands 2,820 square feet of exhibition space, has one person shows, group shows and student shows in a variety of media. An adjoining courtyard is available to display outdoor sculpture. Admission to the University Art Gallery is free.

The Student Gallery

Located in AE 274, the Student Gallery is a more intimate space. Throughout the year, students present their works for short exhibitions. The days and hours of these shows vary and are also free.

Art, music, and theatre and dance engage, enrich and vitalize society, and are central of the educational mission of the University. They present a variety of exhibitions and performances throughout the year, showcasing the work of students and faculty, and sometimes staff and outside guests. Details are available from the departments, or at: <http://www.csueastbay.edu/arts>.

See Cal State East Bay's University Calendar for current events.

Intercollegiate Athletics, Instruction, Intramural, and Recreational Programs

Intercollegiate Athletics

Cal State East Bay sponsors intercollegiate athletic programs for both men and women through the Department of Athletics. The University is a member of the NCAA in Division II. Teams compete in the California Collegiate Athletic Association (CCAA). The sports offered include basketball, soccer, cross country, outdoor track and golf for men and women, plus men's baseball, women's softball, women's swimming, women's volleyball and women's water polo.

The California State University is committed to providing equal opportunities to men and women CSU students in all campus programs, including intercollegiate athletics. Information concerning athletic opportunities available to male and female students and the financial resources and personnel that Cal State East Bay dedicates to the men's and women's teams may be obtained from the Athletic Director, Department of Athletics, TR 900, (510) 885-3038.

Instructional, Intramural, and Recreational Programs

The University encourages students to participate in some form of physical activity. In addition to the program of intercollegiate athletics, opportunities exist for students to participate in instructional, intramural, and recreational programs. The Department of Kinesiology offers for credit instructional programs in sports, games, and exercise. The Department of Hospitality, Recreation and Tourism offers instructional programs in outdoor activities. Recreation and Wellness Services provide competitive, recreational, and fitness opportunities during fall and spring semesters through group exercise classes, intramural sports leagues, and personal training programs.

The University has two swimming pools, two racquetball courts, a martial arts facility, a basketball/multipurpose gymnasium, a dance studio, a soccer stadium, a track, a baseball diamond, a softball diamond, and a multipurpose practice field. Information regarding programs should be obtained from the Department of Kinesiology at (510) 885-3061. Groups interested in renting the facilities should see the Office of Facility Reservations and Rentals web site for more information. Student clubs or organizations interested in reserving facilities should contact the office of Student Life at (510) 885-3657.

Additionally, the Recreation and Wellness Center (RAW) offers the campus access to a 54,000 square foot facility which includes a 2-story fitness center, equipment rental desk, locker rooms with showers, the wellness center, and a 2-court gymnasium with an indoor track. Memberships are available to students, staff, faculty, alumni, & community members. Call the RAW at (510) 885-4749 for more information.

Pioneer Bookstore

The Pioneer Bookstore's mission is to support the educational endeavor of the University by offering access to course materials for classes, as well as merchandise and services for the convenience of the campus community. The Hayward campus store is located between the Library and the University Union. The Concord campus store is located in the Campus Union.

In addition to required course materials, the bookstore offers: CSUEB logo clothing and gifts, electronics, nursing supplies and scrubs, lab supplies, educationally-discounted computer software and hardware, computer supplies, school and office supplies, testing materials and study guides, general books, art supplies, Peet's coffee, fresh sandwiches and salads, microwave meals, and other snacks. The Hayward store also has a full-service Bank of America ATM.

All course materials and selected merchandise and services can be ordered online for delivery to a student's address at a fee, or for campus pickup at no additional charge. The website also posts current hours and general information. Hours and general information are also available at (510) 885-3507.

California State University, East Bay Foundation, Inc. is a non-profit auxiliary organization within the California State University system.

Having undergone a major reorganization at the end of 2012, the Foundation's main responsibilities include partnering with Follett to manage the Pioneer Bookstore and supporting the Office of Sponsored Research and Programs in its administration of grants received from federal, state and local governments and private foundations.

For over 50 years, the California State University, East Bay Foundation ("CSUEB Foundation") has been making a difference in the educational experience at California State University, East Bay and the overall campus environment. Its only goal is to support the University's educational mission and to provide quality services that complement Cal State East Bay's instructional programs. In the course of carrying out this mission, the Foundation enhances the University for thousands of faculty, staff, and students. The CSUEB Foundation is governed by a board of directors comprised of faculty, students, staff, administrators and community members. The Foundation is incorporated as a nonprofit public benefit corporation and is exempt from federal income tax under section 501(c)(3) of the Internal Revenue Code.

Business and Economics Special Facilities

The College of Business and Economics has Student Success and Service Centers in the Valley Business & Technology Center, VBT 129 (510-885-3323) for undergraduate students and VBT 132 (510-885-2419) for graduate students, providing academic guidance for Business and Economics students. In addition, there are numerous student study commons located throughout the building.

The Acosta Gallery is used for hosting special events and when not in use serves as a gathering place for students.

Science Facilities

The College of Science includes many specialized teaching laboratories, shared and individual student/faculty research laboratories, and specialized computing facilities. Laboratory classes are limited in size depending on the discipline.

In an effort to foster interdisciplinary research opportunities for our faculty and students, the College recently opened a state-of-the-art Molecular Research and Environmental Analysis laboratory suite.

Some examples of the cutting edge equipment and instrumentation housed in the College are listed below. For more comprehensive lists, please visit the websites of individual departments and the School of Engineering.

- Geophysical equipment for exploring subsurface features, such as faults.
- Eddy's covariance tower for measuring greenhouse gases.
- Astrophysics and Particle Physics Computational Facility
- Laser spectroscopy and magnetometry experiments
- Materials science electrical and optical characterization labs
- Maker space/laboratory; including 3D printers, machine shop, etc.
- Nuclear magnetic resonance facility for characterization of chemical structures
- Instrumentation Lab for the separation and spectroscopic analysis of elements and molecules
- Molecular Biology and Biochemistry Facility
- Nursing skills labs equipped with mannequins and equipment found in hospital settings
- Nursing computerized simulation labs with interactive, wireless mannequins with a variety of physiological outputs for practice in patient care
- Animal Care Facility, including insectary facility that allows for up to 3000 mosquitoes per week to be reared in a state-of-the-art humidity-, temperature-, and light-controlled chamber connected to a containment room for malaria parasite rearing and mosquito transmission studies under University and USDA approved ACL-2 conditions.
- Imaging resources including a Leica SP8 laser scanning confocal microscope equipped with a motorized stage and a maximum optical magnification of 630X and capable of imaging four distinct dyes simultaneously, two inverted compound microscopes capable of performing Differential Interference Contrast (DIC) and Phase and Fluorescence Microscopy, as well as a microinjection apparatus for creating transgenic animals.

Recreation and Wellness Center (RAW)

The Recreation and Wellness Center (RAW) offers comprehensive programs and services centered on promoting healthy lifestyle choices through dynamic and inclusive best-practice approaches.

Memberships are available to students, staff, faculty, alumni, and community members. Members obtain access to the 54,000 square foot facility which includes a 2-story fitness center, equipment rental counter, locker rooms with showers, the wellness center, a relaxation room, and a 2-court gymnasium with an indoor track. Services include fitness classes, personal training, intramural sports leagues, and open recreation hours. Designed to LEED (Leadership in Energy and Environmental Design) Gold standards, the RAW's facility design was recognized with a Facility of Merit Award from Athletic Business in 2011.

Within the RAW, wellness programs are offered to provide students with holistic approaches that integrate physical, psychological, emotional and social aspects of a student's health experience. Interactive workshops focus upon nutrition, fitness, sexual health, alcohol, other drugs, and self-care topics. Massage therapy is also available for currently registered students.

The RAW offers students internships and student assistant work positions to gain experience, student leadership, and professional development.

For more information about RAW facilities, programs, or services visit <http://www.csueastbay.edu/raw> or call (510) 885-4749 for more information.

The University Unions

The University Union is considered the "living room" for Cal State East Bay. The Union provides services, facilities, and programs to meet the various academic, social, recreational, and cultural needs of the students, faculty, staff, and community. It has become the center of life and friendship for the Cal State East Bay community.

The University Union has a great deal to offer. Housed within the Union buildings are the Associated Students, Incorporated and Student Government Offices; Customer Service and Reservation center; Student Life and Leadership Programs office; The Diversity and Inclusion Student Center; Aramark Dining office; US Bank; a PHiL Station; an ATM machine; food services; recreational facilities; game rooms; and lounge areas. With conveniently located televisions, the Union is the ideal location for catching up on current events, watching a major sporting event, or enjoying music videos in a relaxing atmosphere.

Conference spaces are also available for use by student organizations, academic and administrative departments, CSU East Bay affiliated groups, and off campus groups. The University Union provides an ideal setting for club and organization meetings, lectures, receptions, banquets, and special events.

- **Reservation Procedures**

- All groups may request to make reservations using the Online Form or access within 25Live.
- Events occurring outside of normal business hours are subject to a fee. No organization or department may reserve space on behalf of another group. Groups may not sell, sublease, or transfer their reservation to another group. In order to avoid operating and personnel charges, reservations should be scheduled during standard hours of operation.
- All groups receive the following complimentary services at no charge:
 - **Room Rental** - standard set-up
 - **Tables** - Based on reservation request/availability
 - **Chairs** - Based on reservation request/availability
 - **Technology** (laptop, projector, screen, BaySync Card Reader) - Based on reservation request/availability
 - **Other Supplies** (easel, whiteboard, chalkboard, post it paper) - Based on reservation request/availability

- **Note:** Catering related items such as table skirts must be ordered through the Catering office. Skirts are not provided for tables unless food is part of the reservation. There may be an additional cost associated.
- Organizations that have access to the University Union facilities include University-recognized student organizations, academic and administrative departments, Cal State East Bay-affiliated groups, and off-campus groups.
- All recognized Cal State East Bay student organizations must make reservations through the Student Life and Leadership Programs (SLLP) Office. SLLP will submit reservation requests and confirm the space with the student group. Academic/administrative/service departments can make reservations directly with the University Union Reservation Desk. The Union facilities shall not be used for regular academic classes. Deviation from this policy requires approval from the Director, University Union.
- Groups not directly affiliated with the university should make reservations directly with the University Union Reservations Desk and will be required to pay all charges and fees associated with their planned event prior to the event.
- **Room Rental Fees**
 - Rental fees will be levied according to the University Union room rental fee structure. If special services (i.e., technical support, special equipment such as dance floor) are requested, the University Union will levy the charge appropriate for the service requested. Set-up fees may be assessed for use of the University Union when the sponsor requires set-ups beyond those normally provided.
- **A-V Equipment**
 - Audio-visual equipment is available upon request at the time of reservation. LCD projectors, screens, P.A. systems, and laptops are available.
- **Cancellations**
 - Groups wishing to cancel their reservation, must do so at least 48 hours prior to the start of their event. If this cancellation policy is not followed, groups are subject to the cancellation fee (based on group type). The fee structure can be found on the University Union website (rate sheet). Early cancellations enables the Union to meet the growing demand for space and prevents our staff from having to set up tables/chair/equipment if they are not needed. Organizations are encouraged to make reservations as early as possible. Groups that frequently violate the cancellation policy will not have the opportunity to continue reserving space for the duration of the current semester.
- **Banners/Posters**
 - Recognized Student Organizations, Associated Students, and University departments may place banners announcing events on designated spaces of the University Union patio railing. Organizations must fill out the UU Banner Display Request Form and be officially approved. Organizations must follow the process as published on the form.

Title 5, California Administrative Code, Subchapter 5, Article 9, Sections 42350-42353 specifies certain restrictions on the posting and distribution of printed materials on campuses of the California State University. Campus Presidents and/or designees are granted authority for implementing and for issuing directives pertaining to such regulations. The policy for posting can be found at: Posting Policy.

Please visit the University Union webpage for more/updated information.

The Hayward (Main) Campus

Our outstanding instructional facilities include over 150 classrooms and teaching laboratories and over 200 specialized instruction rooms. Discipline-specific computer labs and general access labs with PCs and Apple computers are available for student use. The University Library, with its rich collections and online catalog, features individual and group study areas, as well as an innovative Learning Commons offering expert information technology support, access to extensive information resources, library reference services, and information literacy instruction.

Food services, lounges, and meeting rooms are available through the University Union, a popular student gathering place. It also offers specialized services such as a bank and an automatic teller machine. The University Union includes retail food outlets, and space for growing student social and academic activities. The Student Recreation and Wellness Center (RAW) houses a gymnasium, an elevated running track, two fitness centers and two multi-purpose exercise studios, locker rooms, and associated support space to promote nutrition, health and wellness.

Other campus facilities include a 500-seat theater, a television studio, a bookstore, a student health center, a 100,000 square foot student services and administration building, and a 67,000 square foot student and faculty support center. Pioneer Heights, the University's on-campus student apartment complex, offers housing for more than 1,300 residents, as well as a full service Dining Commons.

The Hayward campus recreational facilities include a 20,000 square foot main gymnasium, a dance studio, swimming pools, racquetball courts, tennis courts, volleyball courts, several playing fields, and a par course. The 54,000 square foot Student Recreation and Wellness Center, funded by student fees, opened in 2010, with a multi-court gym for basketball, volleyball, or badminton; an elevated running track; two fitness centers with free weights and machines; multipurpose fitness and activity rooms for aerobics, martial arts and dancing; support space to promote nutrition, health and wellness; locker rooms; and a juice bar in the lobby.

Click the icon for a map of the Hayward Campus

The Concord Campus

The Concord Campus is a branch campus of Cal State East Bay located at 4700 Ygnacio Valley Road near Clayton, Walnut Creek, Pleasant Hill, Pittsburg, and Antioch. The campus is uniquely positioned to serve the educational needs of county residents.

The 386-acre campus includes over 300 acres of open space, community sports fields, and views of Mt. Diablo and the Sacramento Delta. In 2017, the Concord Campus celebrated 25 years of providing public higher education to students and professionals. Many residents benefit from Cal State East Bay's presence in the heart of Contra Costa County and enjoy the small class size and intimate educational experiences the Concord Campus provides.

Degree Programs

Functioning primarily as an upper-division and post baccalaureate campus in Contra Costa County, the Concord Campus offers quality educational programs taught by East Bay faculty. Academic degree and credential programs currently offered at the Concord Campus are:

Undergraduate Fields of Study

Note: See the Concord Campus website for the most current majors and programs available.

Undergraduate degree completion programs with at least upper division coursework that can be completed entirely at Concord include:

- Business
- Liberal Studies
- Nursing
- Psychology

Upper division courses for the following majors are also offered at the Concord Campus. Students may be required to take additional coursework online or at the Hayward Campus in order to complete their degree program:

- Criminal Justice
- Health Sciences
- Human Development
- Sociology

Graduate Fields of Study

- Masters in Educational Leadership
Application and/or registration through either the Hayward or Concord Campus qualifies a student to enroll in courses at both sites. Academic expectations and standards, as well as University policies, are the same at both locations.
- Masters in Early Childhood Education
Application and/or registration through either the Hayward or Concord Campus qualifies a student to enroll in courses at both sites. Academic expectations and standards, as well as University policies, are the same at both locations.

Credentials

- Multiple Subject Teaching Credential
- Single Subject Teaching Credential

Certificate Program

- Paralegal Program Certificate

Post Baccalaureate Program

- Pre-Professional Health Academic Program

Services and Facilities

The Concord Campus promotes student success through a variety of services. These include academic advising on General Education (GE) and graduation requirements, as well as administrative and instructional support services. Students are referred to their departments for major advising.

Instructional support services include advanced computer laboratories, modern smart classrooms, a branch of the University's Library, student collaboration room, on-site bookstore, outdoor fitness park, student lounge and a free shuttle service between the campus and the Concord BART station.

For assistance, or information on any of these services, call (925) 602-6700 or visit <http://www.csueastbay.edu/concord>

Click the icon for a map of the Concord Campus

The Oakland Center

Cal State East Bay's Oakland Center serves the community as a conference center and corporate training facility, and is home to many Continuing Education classes.

Cal State East Bay's Oakland Center specializes in programs for working adults and offers professional development and certificate courses, and further demonstrates the University's regional commitment.

University Police Department

Cal State East Bay enjoys low crime statistics due to an on-campus, professionally trained police department which delivers public safety services to the campus community. The University Police Department programs such as the Bicycle Patrol and Escort Service provide Cal State East Bay with a community-oriented form of police services, which allows for personal interaction between police personnel and members of the university community while providing an increased level of crime prevention patrol on campus grounds.

The department offers several on-going programs available to staff, faculty, and students on the following topics: alcohol and drug awareness, acquaintance rape and awareness, and self-protection for women. The department also distributes a wide variety of crime prevention materials and offers vehicle lockout, battery failure, fingerprinting, and lost and found assistance.

The following information may be obtained from the University Police Department, (510) 885-3791:

- Information concerning Cal State East Bay policies, procedures, and facilities for students and others to report criminal actions or other emergencies occurring on campus.
- Information concerning Cal State East Bay's annual campus security report and annual fire safety report. This information is also available on the CSUEB website at <http://www.csueastbay.edu/af/departments/upd/annual-security-report.html>.

- Information concerning the prevention of drug and alcohol abuse.

For information about Emergency Contacts see the **Campus Contacts** + chapter.

Office of Prospective Student Services

The Office of Prospective Student Services (OPSS) offers a vast array of outreach and recruitment services to prospective high school and transfer students interested in attending Cal State East Bay, as well as for counselors and professionals who support prospective students' higher education goals. Services include campus tour programs, small and large scale admission and recruitment events for prospects, applicants, and admitted students and their families, pre-admission advising (both on-campus and in the community), attendance at college fairs, presentations, and serving the community at large to increase CSU and Cal State East Bay awareness and interest in the University.

For more information about the Office of Prospective Student Services (OPSS) call (510) 885-2556 or e-mail: admissioncounseling@csueastbay.edu. To schedule a campus tour or a pre-admission advising appointment, at the Hayward or Concord campus, go to www.csueastbay.edu/visit.

Student Housing and Residence Life

Student Housing and Residence Life (SHRL) Department, consistent with the mission of the University and the Division of Student Affairs, works to engage all residential students in their holistic development and academic success towards retention, graduation, and future endeavors. SHRL works to sustain this mission by providing student-centered programs, services, and facilities that foster a safe, inclusive, and vibrant residential learning community.

Students must be enrolled to live on campus. Student Housing and Residence Life has two complexes:

- Pioneer Heights, which offers apartments and suites.
- University Village, which offers apartments.

First-time freshmen meeting the established criteria are housed in the Pioneer Heights suite resident halls. Other students are housed in the Pioneer Heights and University Village apartments. All housing is based on a first-come, first-served basis.

The Housing application and contract process is completely online. Applicants are notified once the Housing Application and Contract is available, typically in early May. Housing has a limited number of spaces available so students should be sure to check the Student Housing website frequently to ensure they have the most updated information. It is important to note that the University's admission application is separate from the housing application and contracting process. Visit the Student Housing and Residence Life website to learn more about the application, contracting, and room selection process.

The Residence Life experience is part of a vibrant and growing; Residence Life strives to be intentional and student-centered. The staff works collaboratively with other members of the Cal State East Bay community to promote the following:

- Helping students build inclusive, socially just and interactive communities where every member feels a sense of belonging.

- Working to foster student growth in a manner that shapes character and develops independence.
- Encouraging students to explore their personal identity and embrace diversity as well as appreciate individuality.
- Promoting healthy communication, intellectual discourse and support students in achieving academic success.
- Helping students understand their roles, rights, and responsibilities as members of the Cal State East Bay community, and as citizens of our world.

Contact the Student Housing and Residence Life office at (510) 885-7444 or stop by in person. The Housing Office is located across the street from the Recreation and Wellness Center. Visit the Student Housing & Residence Life website to view hours of operations.

Pioneer Heights Complex

The Pioneer Heights apartments and suites are conveniently located on campus across the street from the Recreation and Wellness Center.

The apartments feature single (for upper-division students or students who are 21 or older), double, or triple bedroom accommodations, a full kitchen, living and dining area, and one or two bathrooms. The suites feature double and triple bedroom accommodations, a kitchenette with refrigerator and microwave oven, a living and dining area, and two bathrooms. High-speed Internet access is included as part of the rent. Study space, laundry rooms, and recreation rooms with television, air hockey, and pool tables, are among the amenities with the Recreation and Wellness Center conveniently located across the street. Outdoors are lighted basketball courts, as well as a barbecue terrace. Convenient meal plans are required for all students living on campus, making it easy to save time and great meeting place to share a meal with friends. View the Housing Brochure to learn more about the Pioneer Heights apartments and suites.

University Village Complex

The University Village apartment complex is located across the street from the Hayward Campus' north entrance.

The apartments feature a double or triple occupancy bedroom accommodations, a kitchenette, living area, and one or two bathrooms. The apartments are updated with modern cabinets, a stainless steel refrigerator, and a stainless steel convection microwave. High-speed Internet access and basic cable is included as part of the rent. Study space, laundry rooms, a community kitchen, and a community room with television, and a pool table are among the amenities. Convenient meal plans are required for all students living on campus making it easy to save time and great meeting place to share a meal with friends. View the Housing Brochure to learn more about the University Village apartments.

Off-Campus Housing

Identifying off-campus housing in the East Bay can be challenging and Housing offers a few resources to help students through the process. Please allow two to three months when searching for Off-Campus Housing. The Student Housing & Residence Life website provides assistance in the transition off campus and helps students understand their rights and responsibilities in the greater community. Students have to be motivated and actively looking when finding off-campus housing.

Student Health and Counseling Services

Student Health and Counseling Services (SHCS) provides quality health care by board certified, licensed, and credentialed health care providers and counselors to current, regularly enrolled Cal State East Bay students. SHCS' goal is to assist students in achieving and maintaining optimal health while pursuing their academic and career goals.

Student Health and Counseling Services hours of operations are Monday through Wednesday and Friday from 8:30 a.m. to 5:00 p.m., Thursdays from 10:00 a.m. to 5:00 p.m. Hours may vary during Summer term and semester breaks. Students can be seen on an appointment basis. Same day appointments are available for urgent needs. Limited services are also offered during semester breaks. Medical and counseling services are also available at the Concord Campus. After hours and weekend mental health phone crisis counseling is available by calling (510) 885-3735, and choosing option "2". For more information, please call (510) 885-3735 or visit www.csueastbay.edu/shcs.

Funded by student health fees, SHCS provides an extensive array of outpatient health and mental health care services at no or low cost to students. General medical visits with board-certified, licensed medical doctors, nurse practitioners, nurses, and medical assistants for the care, evaluation, and treatment of acute illnesses and injuries, health education, and family planning are available. SHCS also provides confidential individual, couples, and group counseling. All counselors are licensed or pre-licensed professionals.

Services offered at SHCS include:

General Health Services:		Reproductive Health Services*:
Health Education	Personal Counseling	Birth Control
Hearing Tests	Pharmacy*	HIV Testing
Immunizations*	Physical Exams	STI Testing & Treatment
Laboratory*	Physical Therapy	
Massage Therapy*	Psychiatry	
Orthopedics	Radiology (x-ray)*	
* Fees may apply		

To provide the holistic experience of college health, the Wellness Center also offers a Relaxation Room and a Wellness Room with health education activities and information. The Wellness Center is located in the Recreation and Wellness (RAW) Building. For more information visit www.csueastbay.edu/raw.

Confidentiality

All medical and counseling information is confidential by law and will not be released without the student's written consent.

Accreditation

SHCS is accredited by the Accreditation Association for Ambulatory Health Care, Inc. The SHCS facility and services meet the national standards for providing the highest quality of health care available.

Peer Advocates for Wellness (PAW)

PAW is an opportunity for CSUEB students to become involved with SHCS. Under the supervision of Health & Wellness Services, PAW interns are trained peer health educators who provide resource information, peer support, and outreach about health and wellness issues. For more information, email: paw.csueb@gmail.com.

Student Health Advisory Committee (SHAC)

SHAC advocates for the health needs of students and advises the SHCS Director and University President on programs, scope of services, and hours of operation for SHCS. For more information, email: shac.csueb@gmail.com.

Insurance

Students are strongly encouraged to carry outside coverage for after-hours care, emergency situations, or when referrals to outside providers are needed. For more information about insurance options, visit: www.coveredca.com, www.csuhealthlink.com, or email: csuebhealthinsurance@csueastbay.edu.

Cashiering

The Cashier's Office is responsible for the general cashiering function for the University. They distribute the payroll warrants for all employees and perform a collection function for emergency loans, returned checks, and housing rental payments. In addition, they sell parking permits, distribute emergency loan checks, and provide information to students, staff, and faculty on various issues. The Cashier's Office is located at SA 1200 on the first floor of the Student Services and Administration building on the Hayward Campus.

Greek Life

Cal State East Bay's Greek organizations include nationally affiliated organizations, as well as local and regional groups. Greek organizations promote scholarship, provide numerous leadership opportunities,

and participate in a wide variety of community service activities. Greek organizations also provide members with the opportunity to develop lifelong friendships that enhance the college experience. For more information, see their Facebook Page.

University Parking & Alternative Transportation Services

Parking facilities are available to students, faculty, staff, and guests displaying valid University parking permits. Permits may be purchased [online](#) each semester. Parking permits are required Monday-Thursday from 7am-11pm & Friday from 7am-5pm. Daily and hourly permits are also available and can be purchased at parking dispensers located in select lots around campus. See the campus map for locations of parking dispensers.

Alternative Transportation Services

Hayward Campus

The Hayward campus is a short distance from Interstate 880 and 580. The campus is conveniently located between three BART (Bay Area Rapid Transit) train stations. The University provides complimentary shuttle service from the Downtown Hayward BART station and the Castro Valley BART station. The current Hayward University shuttle schedule can be found [here](#).

AC Transit also provides service to the Hayward campus from the Downtown Hayward BART station. AC Transit runs Monday-Sunday. For the line #60 bus schedule and fare, please click [here](#).

The Alternative Transportation office also offers a Vanpool Program for CSUEB Faculty and Staff. Vanpools currently operate out of the Modesto, Manteca, Tracy, and Fairfield areas.

Zipcar is a car sharing program that CSUEB participates in. 6 Zipcars are currently available on the Hayward campus for students, faculty, and staff to rent by the hour or day. Gas and insurance are included as part of the hourly/daily rate.

Zimride is our new ride sharing program. Open to all students, faculty, and staff, Zimride allows individuals to create a profile and then matches them with other campus members who share the same ride schedule.

Zagster bicycles are part of a bike sharing program. Zagster bikes can be rented by the hour and are a great way to get around campus. There are currently 12 Zagster bikes available around campus to rent. The first three hours are free for every rental.

Concord Campus

The Concord Campus is located a few miles from the Concord, Pleasant Hill, and Walnut Creek BART train stations. A free student shuttle operates between the Concord campus and the Concord BART

station Monday-Thursday during instructional periods on campus. For the current Concord shuttle schedule, click [here](#).

Zimride is our new ride sharing program. Open to all students, faculty, and staff, Zimride allows individuals to create a profile and then matches them with other campus members who share the same schedule and profile.

For more information on Parking & Alternative Transportation, please visit their [website](#) or by phone at (510) 885-3790.

Moss Landing Marine Laboratories

Cal State East Bay is also part of a university consortium that operates the Moss Landing Marine Laboratories in Monterey Bay. In addition, the University runs a San Francisco Bay shore lab with marine and freshwater craft operating in the bay and Sacramento River delta.

Moss Landing Marine Laboratories (MLML) administers the Master of Science in Marine Science program for California State Universities in northern and central California, and is dedicated to the pursuit of excellence in both education and research. An outfitted marine operations department, active research diving program, and state of the art equipment allow for cutting edge research in a wide variety of disciplines including: marine ecology; the biology of marine plants, invertebrates, fishes, turtles, birds, and mammals; oceanography and marine geology; and chemistry and biogeochemistry. MLML is known for a hands-on, field-oriented approach which places students at the frontiers of marine science worldwide where discoveries are being made. MLML provides the skills and training so students become successful scientists, teachers, and resource managers serving societal needs involving marine issues.

The lab is situated in an excellent location for the study of the marine world. The Monterey Submarine Canyon, the largest such feature on the west coast of North America, begins within a few hundred meters of the Moss Landing harbor and the MLML research fleet. To the east of MLML is the Elkhorn Slough, the largest tract of tidal salt marsh in California outside of San Francisco Bay, and an important site for shorebirds and fishes. To the north and south are sand dunes, sandy beaches, and extensive kelp forest habitats along the rocky shoreline. Some of the most productive kelp forests and intertidal areas can be found in this region. MLML also is located between two large upwelling centers, which provide nutrients that stimulate an incredible amount of productivity but also provide a wealth of opportunities to study coastal oceanic processes.

Full-time course offerings are available for resident credit and the facilities are used to supplement courses taught on the Hayward Hills campus. The laboratories are located 82 miles south of Hayward on Monterey Bay, and some classes are taught in Salinas. Contact the Department of Biological Sciences for further details and for courses offered at Moss Landing, as well as information on the M.S. program in Marine Science.

University Extension

General Information

Information on courses, programs, and enrollment procedures is available through Continuing Education's course schedule each semester on the University website at www.ce.csueastbay.edu, by phone (510-885-3605), and by e-mail ce@csueastbay.edu.

Continuing Education

Continuing Education (CE) at Cal State East Bay features a broad spectrum of degree and certificate programs, as well as individual courses that complement the University's regular curriculum, and meet the academic, professional, creative, and lifelong learning goals of its diverse community.

CE designs programs and courses to fulfill the needs of current job market trends, enhance professional development, and promote personal enrichment. Offering more than 40 degree and certificate programs in a variety of industries and fields, CE allows students to explore career options and pursue opportunities for advancement.

Students may take one or more individual courses, enroll in a degree or certificate program, or attend a seminar or conference. In some cases, academic credit is awarded; while in others, Continuing Education Units (CEUs) are available. In programs designed specifically for personal enrichment, no academic credit is awarded.

American Language Program

The University's American Language Program provides instruction for international students in academic English and introduces them to American culture. Each year, students from more than 25 countries enroll in the program. After graduating from the American Language Program, international students often enroll as matriculated students in the University.

Open University Concurrent Enrollment

The "Open University" program allows individuals to enroll in regular University classes without being formally admitted to the University. Regularly enrolled students are not eligible to take Open University courses. A student enrolled in Open University may:

- Examine a field of study before committing to a degree program
- Update job skills or obtain professional training
- Attend classes on a non-continuous basis
- Raise their grade point average prior to application
- Enroll in classes if they've missed the Cal State East Bay application deadline

Open University students will be granted "Open University" extension credit for coursework. There are limits on the number of Open University extension units that may be applied toward University degrees. Up to 24 units may be applied towards a baccalaureate degree and up to 9 units for a master's degree.

Most courses taught by regular Cal State East Bay faculty are available to students through Open University. To enroll in an Open University course, applicants must complete an online Open University application form each term they wish to attend. The application deadline is the eighth instructional day of the term. Go to <https://www.ce.csueastbay.edu/ce/programs/open-university/> to apply online and view application deadlines. Late applications will not be accepted.

Restrictions

Continuing Education registration, in most courses or programs, does not require formal admission to the University. For some programs, however, students may be required to meet certain requirements prior to being eligible to register. Only registration in self-support Special Session classes provides "continuing student" status to admitted, matriculated students.

Glossary of Terms & Definitions

glossary

[glos-uh-ree, glaw-suh-]

noun, plural glossaries.

1. a list of terms in a special subject, field, or area of usage, with accompanying definitions.

- Academic Dishonesty
- Academic Grading Symbols (Undergraduate)
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Academic Dishonesty

Academic Dishonesty includes, but is not limited to:

- **cheating**, which includes possessing unauthorized sources of information during examinations, copying the work of others, permitting others to copy a student's own work, submitting work done by others, completing assignments for others, altering work after grading and subsequently submitting it for re-grading, submitting the same work for two or more classes without the

permission of all instructors involved, or retaining materials that students have been instructed to return to their instructor;

- *plagiarism*, which includes taking the words, ideas, or substance of another and either copying or paraphrasing the work without giving credit to the source through appropriate use of footnotes, quotation marks, or reference citations;

- *providing materials to another* with knowledge they will be improperly used;

- *possessing another's work* without permission;

- *selling, purchasing, or trading materials* for class assignments (includes purchasing term papers via the internet);

- *altering the work* of another;

- *knowingly furnishing false or incomplete* academic information;

- *altering documents* that make up part of the student record;

- *forging signatures* or falsifying information on any official academic document;

- *inventing data* or falsifying an account of the method through which data was generated.

Academic Grading Symbols (Undergraduate)

Undergraduate Course Symbols & Grade Points Earned

Academic Symbol	Definitions	Grade (Quality) Points Earned
A	Excellent	4.0
A-	Excellent	3.7
B+	Good	3.3
B	Good	3.0
B-	Good	2.7
C+	Satisfactory	2.3

C	Satisfactory	2.0
C-	Satisfactory	1.7
D+	Poor	1.3
D	Poor	1.0
F	Failing	0.0
CR	Credit	not applicable
NC	No Credit	not applicable

"A-F" Grading Pattern

Courses required for majors in a major department are taken in this pattern. Specific department exemptions are noted in the course description. Faculty use of "+" or "-" is optional.

Credit/No Credit and A/B/C/No Credit Grading Patterns (CR/NC and A/B/C/NC)

Students may enroll in up to 40 semester units in credit/no credit patterns as an **undergraduate**. There are two *credit/no credit* patterns:

1. "CR/NC,"
2. "A/B/C/NC."

Some courses are only offered in the "CR/NC" or "A/B/C/NC" patterns. Undergraduate students can select the "CR/NC" pattern for most other courses subject to certain restrictions. Students can choose the "CR/NC" pattern during registration until the end of the Grade Type Change period.

Note: No changes to, or from, the credit/no credit pattern are permitted after the Grade Type Change period. There are no exceptions to this rule. Courses in a student's major department, regardless of course prefix, may not be taken "CR/NC," unless that is the only grading pattern in the course.

Units that students earn in courses taken under these grading patterns will apply to their degree requirements as long as they are not pre-baccalaureate courses (courses numbered 000 - 099).

- "CR" signifies that a student mastered the material at the level of "C-" or higher.
- "NC" signifies a work level of "D+" or lower.

Academic Grading Symbols (Graduate)

Graduate Course Symbols & Grade Points Earned

Academic Grade	Standard of Work Represented	Grade (Quality) Points
A	Superior	4.0
A-	Superior	3.7
B+	Adequate	3.3
B	Adequate	3.0
B-	Adequate ¹	2.7
C+	Substandard	2.3
C	Substandard	2.0
C-	Unacceptable	1.7
D+	Unacceptable	1.3
D	Unacceptable	1.0
F	Failing	0.0
CR	Credit ²	not applicable
NC	No Credit ²	not applicable

¹Note: A "B-" grade, though described as "adequate," generates fewer than 3.0 grade (quality) points and must be balanced by a grade of "B+" or higher to maintain a 3.0 GPA.

2Note: These grades cannot be selected by students. They are only available in graduate courses offered exclusively on a "credit/no credit" basis.

The typical grading pattern for courses graduate students will take is "A-F"; the use of "+" and "-" is at the discretion of each instructor. As noted in the Master's Degree Requirements section, grades lower than "C" may not be used to satisfy master's degree requirements, and some programs may require grades higher than "C" to meet program requirements; check with the academic department about its policy. A graduate student may use courses taken on a "CR/NC" basis to meet the degree requirements only if the courses are offered exclusively on that basis. Typically, these courses are restricted to fieldwork and internships and a "CR" grade indicates that the student's work is at least of "B-" quality. In post-baccalaureate (500-level) courses, a "CR" grade also indicates that the work is at least of "B-" quality.

Academic (Latin) Honors

Graduation with Honors

Candidates for the baccalaureate degree may be eligible for the awarding of Latin Honors at the time of graduation if they have fulfilled the following conditions:

1. They must have a cumulative grade point average of 3.65 or higher in all coursework and in coursework completed at Cal State East Bay.
2. They must have completed at least 40 semester-units of coursework in residence (as defined in the University Catalog) at Cal State East Bay.

summa cum laude (cumulative GPA, overall and at CSUEB, of 3.85-4.00) *highest honor*

magna cum laude (cumulative GPA, overall and at CSUEB, of 3.75-3.84) *high honor*

cum laude (cumulative GPA, overall and at CSUEB, of 3.65-3.74) *honor*

The GPA is officially calculated at the time the student has completed graduation requirements. The honors designation will be noted on the student's diploma and official transcript. The conditions noted above apply equally to second-baccalaureate degree candidates.

Note: Post-baccalaureate and graduate students are not eligible for Latin Honors.

University Honors Program

The University Honors Program is different from "graduation with honors". Graduation with honors is determined strictly on a GPA basis, and no additional coursework is required. The University Honors Program provides outstanding students the opportunity for academic challenge through the completion of specialized courses, seminars and projects under the direction of faculty mentors. To see their website, click on the link for more information.

Articulation

Authority for decisions regarding the transfer of undergraduate credits is delegated to each California State University (CSU) campus. Most commonly, college level credits earned from an institution of higher education accredited by a regional accrediting agency are accepted for transfer to campuses of the CSU; however, authority for decisions regarding the transfer of undergraduate credits is delegated to each CSU campus.

CSU campuses may enter into course-to-course or program-to-program articulation agreements with other CSU campuses and any or all of the California Community Colleges, and other regionally accredited institutions. Established CSU and California Community College articulations may be found on www.assist.org. Students may be permitted to transfer no more than 70 semester (105 quarter) units to a CSU campus from an institution that does not offer bachelor's degrees or their equivalents, for example, community colleges. Given the university's 30-semester (45-quarter) unit residency requirement, no more than a total of 90-semester (135-quarter) units may be transferred into the University from all sources.

Administrative Grading Symbols

Administrative Grading Symbols & Their Definitions

Administrative Grading Symbol	Definition	Grade (Quality) Points Earned
RP	Report in Progress	not applicable
I	Incomplete (Authorized)	not applicable
IC	Incomplete Charged	0.0
RD	Report Delayed	not applicable
W	Withdrawal	not applicable
WU	Withdrawal Unauthorized	0.0
AU	Audit	not applicable

Report in Progress (RP)

The symbol "RP," Report in Progress, is used in connection with courses that extend beyond an academic term. This symbol indicates that work is in progress, but that a final grade cannot be assigned until additional work is completed. The work must be completed within one year.

Note: If the work is not completed within the established time limit the "RP" grade will be changed to an "F" or "NC," depending on the grading pattern for the course.

Incomplete (I)

The symbol "I", Incomplete (Authorized), indicates that:

1. a discrete portion of the required coursework has not been completed and evaluated in the prescribed time period due to unforeseen, but fully justified, reasons,
2. attending a future offering of the class is not required to complete the work, and
3. the instructor believes it likely that the student will earn credit for the course upon completion of that work.

Students who are currently failing a course are not eligible for an Incomplete.

It is the student's responsibility to bring pertinent information to the attention of the instructor and to determine from the instructor the remaining course requirements that must be satisfied to remove the Incomplete. A final grade is assigned when the work agreed upon has been completed and evaluated. The instructor will specify the work needed to complete the course that can be viewed in *MyCSUEB*.

Note: An "I" must normally be made up within one calendar year immediately following the end of the term during which it was assigned. This limitation prevails whether or not the student maintains continuous enrollment. Students may not repeat a course in which they currently have an incomplete grade. Students who are currently failing a course are not eligible for an Incomplete.

Students may be able to receive up to a one-semester extension from the instructor. These extensions are for cause and must be approved by both the instructor and department chair. (Examples of cause include military service, serious health or personal problems, or instructor's leave of absence.) If a student wants credit for a course after an "I" has been converted to an "IC," the student must re-register and pass the course.

When the required work has been completed and evaluated, the instructor will submit a change of grade form and the academic grade will be recorded. If the student does not complete the work within the allowed time limit, the grade will be recorded as an "IC" (Incomplete Charged).

A student can graduate with an "I" grade on their record if the course is not necessary for graduation requirements. No grade may be changed once the degree has been awarded.

Incomplete Charged (IC)

The symbol "IC," Incomplete Charged, is used if the student received an authorized incomplete ("I"), but did not complete the required coursework within the allowed time limit, and the original grading pattern of the course was "A-F." If the grading pattern was either "A/B/C/NC" or "CR/NC", the grade will be recorded as "NC."

Note: The "IC" replaces the "I" and is counted as a failing grade for computing grade point average.

Report Delayed (RD)

The Report Delayed grade is an administrative grade assigned to students for a course if the instructor notifies the Office of the Registrar that grade reports have been delayed by circumstances beyond the control of the instructor. An example is the illness of the instructor at the end of the semester. The instructor will replace the "RD" grade with an academic grade as soon as possible.

Note: If the instructor fails to replace it with an academic grade by the end of the following semester, the grade "RD" will be converted to a "WU" or an "NC" depending on the grading pattern.

Withdrawal (W)

Dropping a course may be permitted, without restriction or penalty, during the Add/Drop Period. No grading symbol is recorded in such instances.

The "W" administrative grade indicates that the student was permitted to withdraw from a course after the end of the Add/Drop Period and prior to the last twenty percent of instruction, and may be assigned only for serious and compelling reasons. Permission to withdraw during this time shall be granted only with the approval of both the instructor and the department chair. The requests and approvals shall state the reasons for withdrawal.

Undergraduate students may withdraw after the Add/Drop Period from no more than 18 semester units in the undergraduate career. Only withdrawals recorded in terms beginning with Fall 2009 are counted. When serious illness or accidents are documented and used as the basis for approval of withdrawal from classes in the term, the units in question will not count against the maximum units allowed. Open University units are counted toward the maximum units. No limitations are placed on withdrawals by post-baccalaureate students taking classes in a post-baccalaureate career.

Withdrawals are not permitted during the final twenty percent of instruction except in cases, such as accident or serious illness, where the cause of withdrawal is due to circumstances clearly beyond the student's control and the assignment of an Incomplete is not practicable. Withdrawals of this nature may involve total withdrawal from the campus or may involve only one course, except that a course grade and credit or an Incomplete grade may be assigned for courses in which sufficient work has been completed to permit an evaluation to be made. When serious illness or accidents are documented and used as the basis for approval of withdrawal from classes in the term, the units in question will not count against the maximum units allowed. Request for permission to withdraw under these circumstances shall be granted only with the approval of the instructor, the department chair, the college dean and the administrator appointed by the President to act in such matters.

The "W" grade shall not be used in the calculation of grade point averages.

Withdrawal Unauthorized (WU)

The "WU" grade (Withdrawal Unauthorized) shall be used where a student who is enrolled on the census date does not officially withdraw from a course, but fails to complete it. Its most common use is in those instances where a student has not completed sufficient course assignments or participated in sufficient course activity to make it possible, in the opinion of the instructor, to report satisfactory or unsatisfactory completion of the class by use of the letter grade (A-F). *The "WU" is counted in the grade point average as an*

"F" grade. When assigning the "WU" grade, the instructor shall report the last known date of attendance by the student.

Audit (AU)

Students may take courses for instruction only (Audit), and will attend class but will not receive credit. Audit students will pay the same fees and enjoy the same instructional privileges as students enrolled for credit. Audit students may participate in class, take examinations or complete other assignments, but are not required to do so.

Note: Students may not petition to change their enrollment status from, or to, "Audit" after the Grade Type Change period has ended.

Advancement to Candidacy

"Advancement to Candidacy" is a status which recognizes completion of substantial progress towards a student's graduate degree. A student becomes eligible for Advancement to Candidacy when they:

- have become a "Classified" graduate student in good standing;
- have completed at least 9 semester units of 600-level coursework with a minimum 3.0 GPA;
- have designed a formal program of study approved by their graduate advisor;
- have fulfilled the University Writing Skills Requirement;
- have completed other department prerequisites for advancement; and
- are recommended for Advancement to Candidacy by their academic advisor (subject to approval by the department's graduate coordinator).

*Also see, **Admission, Enrollment, & Fees** chapter for additional information.*

Auditing Courses

An auditor (an enrolled student or non-enrolled individual) pays the same fees and enjoys the same instructional privileges as a student enrolled for credit, but is not held responsible for examinations or term papers. Regular class attendance is expected, and enrollment as an auditor may be deleted if the expected attendance is not observed. If students wish to enroll in a course as an auditor, they must obtain permission from the instructor of the course. Enrollment as an auditor is permitted only after students otherwise eligible to enroll on a credit basis have had an opportunity to do so. Once enrolled in a course as an auditor, students may not change their enrollment to a credit basis unless such a change is requested no later than the last day to add classes. Students, who are enrolled in a course for credit, may not change to an audit basis after the Add/Drop period has ended.

Baccalaureate Degree: defined

A baccalaureate degree, often called a bachelor's degree, is the academic title that the university confers after successful completion of a minimum number of college credit units (120 semester units at Cal State East Bay), including certain specified patterns of coursework (for example, General Education and a major), a minimum number of advanced units (40 upper division) with a grade point average of at least

2.00 (on a 4.00 point scale), and various other requirements specified in Title 5 of the California Code of Regulations. Some students in higher unit majors will complete more than the minimum 120 semester units for their degree. Cal State East Bay offers three baccalaureate degrees, a Bachelor of Arts (B.A.) degree, a Bachelor of Fine Arts (B.F.A.), and a Bachelor of Science (B.S.) degree. The degree awarded appears on the student's diploma and permanent record.

First-time freshmen can typically complete their coursework in four years if they earn 15 units per semester towards their degree. Transfer students can typically complete their coursework in two years if they earn 15 units per semester toward their degree.

Information concerning the graduation rates of students enrolling at Cal State East Bay is available online at: <http://www.csueastbay.edu/ira/>

*See also Requirements, Exams & Testing **chapter** for baccalaureate degree requirements.*

Capstone Experience

The capstone experience of the graduate program will be the successful completion of a thesis, project, or comprehensive examination. The quality of the student's work, including quality of expression, is the major consideration in judging the success of this degree component.

Thesis

A thesis is the written product of a systematic study of a significant issue. In the thesis, the student is expected to identify the issue, state the major assumptions, explain the significance of the project, detail sources for and methods of obtaining data, provide analysis of the data, and offer conclusions. The thesis should demonstrate original critical and independent thinking, appropriate organization and format, and thorough documentation. If the research involves human subjects, the protocols must be approved by the Institutional Review Board (see "Standards of Research with Human Subjects" section in Graduate Degree Requirements, Policies, & Other Information chapter).

Cal State East Bay offers two kinds of master's degree theses, University Thesis (numbered 691) and Departmental Thesis (numbered 699). Students required, or electing, to write a thesis must register for a minimum of one unit of either 691 or 699 in order to receive credit toward completion of this capstone experience. Students should check with the department for information on the number of units for which they must enroll.

The following criteria are the same for both the Departmental Thesis and the University Thesis.

- The candidate must be a graduate student (i.e., admitted to a master's degree program) to enroll in a thesis course; the academic department may add additional requirements.
- The student's thesis work will be supervised by a departmental committee which must include at least one Cal State East Bay faculty member who is a member of the major department. Please see the Thesis Committee Policy for additional thesis committee requirements.
- The student may not receive credit for more units of thesis work than allowed by the degree program.

- Each semester students will receive a grade of "RP" (Report in Progress) for units earned in 691 or 699 until they have completed their thesis; the student will then be given a final grade for the entire course. No "RP" units will be counted towards the degree or in calculating their GPA. If the thesis is not approved within one year of initial enrollment in a thesis course, the "RP" grade(s) will be changed to "F" or "NC" (depending on the grading pattern of the course).
- Normally, a degree candidate will be required to present an oral defense of their thesis.
- A Master's degree candidate may not earn more than 6 units for either a University Thesis or Departmental Thesis. Some programs have lower unit requirements. Students should check the program description in this catalog.

There are also a few significant differences between the two kinds of theses:

The format of a University Thesis is established by the Office of Graduate Studies. Since these works are expected to serve as resources for future research, the format is formal. An electronic copy is placed in the Institutional Repository. A Departmental Thesis, on the other hand, is usually not as formal. The Departmental Thesis standards and format are determined by the department, and the thesis is retained by the department.

University Thesis:

For information on the steps to follow (the approval process, required format for the structural elements of the thesis, and deadlines) when writing a University Thesis, consult the University Thesis Writing Guide available online at: www.csueastbay.edu/thesiswritingguide. If a student has questions concerning the selection of a topic, and/or the procedure to establish a thesis committee and research protocols, they should contact their department advisor or graduate coordinator. Students should also see if the department requires that a bound copy be submitted to the department. If the student has additional questions concerning the formatting and submission of their University Thesis after having read the University Thesis Writing Guide, it is recommended they contact the University Thesis Editor at: thesis.editor@csueastbay.edu

Departmental Thesis:

For information about a Departmental Thesis (the department's thesis guidelines, including format, acceptable thesis topics, and procedures to establish a thesis committee) contact the department advisor or graduate coordinator.

Project

A project is a significant undertaking in either a fine or applied art or a professional field. Projects should provide evidence of originality, independent thinking, and appropriate form and organization. Students are required to describe their project in a written abstract that addresses the project's significance, objectives, methodology, and conclusions. In some cases, the student may be required to present an oral defense.

Specific criteria for a Project (numbered 693) are the same as those for a Departmental Thesis with a few exceptions.

- An "RP" grade in a project course will become an "F" (no "NC" option) after one year if the project is not completed.
- While the project need not be considered a research resource, it should be of a caliber to constitute a valid terminal activity in a master's degree program and will be permitted only when a thesis is not appropriate.

If a Master's degree student changes from a program requiring a thesis to one requiring a project (or vice versa), they may count a combined maximum of 6 units for 691, 693, and 699 towards the degree.

Comprehensive Examination

A comprehensive examination is intended to assess the student's mastery of relevant subject matter, their ability to analyze and integrate the knowledge of their field, their skill in critical and independent thinking, and their use of appropriate organization and accurate documentation. A record of the student's examination (questions and responses) will be retained by their department. Some departments grant unit credit for exam preparation while others do not.

Catalog Rights for Graduation

As long as a student maintains continuous enrollment as defined in the next paragraph, the degree requirements will remain those of the catalog in effect at the time they declare their major, minor, or degree. However, students may elect to meet the requirements of the catalog in effect at the time of graduation. These principles are called "catalog rights."

Matriculated students who have not enrolled in classes at Cal State East Bay for two consecutive semesters (not including summer or winter sessions), and do not enroll in the third consecutive semester lose their continuous enrollment status and their graduation requirements will be governed by the catalog in effect at the time they reenter. If a student is absent due to an approved Planned Educational Leave or to attend another accredited institution of higher education, they will not lose their catalog rights as long as they are not away from Cal State East Bay for over two years.

Transfer students who attended another CSU campus and/or California Community College have Cal State East Bay catalog rights from the time they began at the other institution if they have continuous enrollment as noted above.

Note: The principle of catalog rights refers to degree requirements, not policies, fees, services, and other matters which, when they change, apply to all students. For that reason, students should check the latest online catalog.

Also Note: Requirements of certain programs (e.g., teacher credential programs) are governed by outside agencies. The requirements of these programs are subject to change based on changes dictated by these outside agencies.

Due to semester conversion, during the 2018-19 academic year only, students with rights to earlier catalogs may request rights to this Catalog for either their major or their graduation requirements or both. Forms are available on the Registrar's website.

Undergraduate Students

Students' catalog rights for their major, minor or degree are governed by the catalog in effect at the time the student declares their major, minor, or degree. Undergraduates will not lose catalog rights for graduation requirements (including general education) by declaring or changing their major if they maintain continuous enrollment.

Post-graduate & Graduate Students

Catalog rights for graduate students are governed by the catalog in effect at the time the student was admitted to their program. As noted earlier, they may select the graduation catalog when they file to graduate. Students should note, however, that there is a requirement that courses in master's programs expire after five years; see the Master's Degree Requirements section of the *Graduate Degree Requirements, Policies, & Other Information* chapter.

Undergraduate Certificate Programs

Undergraduate Certificate Program

A certificate program is a coherent set of academic courses, considerably narrower in scope and objectives than a degree or major, for which students can receive a certificate upon its successful completion. Most certificate programs are oriented toward occupations and/or career skills. A certificate program must contain at least 12 units of courses numbered 300 or above and a minimum of 15 total units. Each certificate program must contain a required core of at least three courses and 9 units. With faculty advice, special certificate programs may be available.

Students must receive a grade of "C" or better in each course applied to the program. Only one course may be taken "CR/NC" in a certificate program not counting courses for which that is the only grading pattern for the course. At least 75% of the units must be taken at Cal State East Bay. (For certificate programs, Cal State East Bay courses may be taken through University Extension or as a regularly admitted and enrolled student.) Students who have already received a major, option, or minor with the same title are not eligible for the certificate. No student is required to complete a certificate program. Completion of a certificate program is recognized by the awarding of a certificate. There is no notation about the program on either a diploma or permanent record. (The courses will be on the student's transcript.) Students may pursue a certificate program before, during, or after their baccalaureate degree. Unlike a minor, a certificate is not part of a degree.

University Extension also offers professional and career development Certificate Programs which may be taken for academic credit or Continuing Education Units (CEUs). For information about the certificate programs offered by University Extension please visit <https://www.ce.csueastbay.edu/>.

Graduate Certificate Programs

For information concerning graduate certificate programs see the Degree Requirements, Policies, & Other Information chapter.

Concentration

A "concentration" is a prescribed pathway through a major which allows for emphasis on a particular segment of the discipline (for example, the Accounting Concentration in the Business Administration Major and the Dance Concentration in the Theatre Arts Major). Not all majors have formal concentrations. Some majors with formal concentrations require students to select a concentration (e.g., Business Administration) whereas others do not (e.g., Chemistry). In some majors, different concentrations have different total unit requirements.

If a student declares a concentration when or prior to filing for graduation and meets the requirements, the concentration will appear on the student's diploma. For those students who wish to complete more than one concentration and have the additional concentration(s) recorded, each must differ by at least three courses and nine units from any other completed concentration.

Note: Students using past-year and archived CSUEB catalogs for their catalog of record, will still see the term "option" being used in those catalogs. The definition for "option" and "concentration", for catalog purposes, are the same.

Cooperative Education

Co-Op Education

The Cooperative Education Course (CEC) is an academic course for which students can receive academic credit for working (paid or unpaid) in a job or internship. Students should speak with their major department advisor about enrolling in such courses. For additional information go to: <http://www.csueastbay.edu/academic/academic-support/aace/career-education/co-op.html>

Fast Facts about Cooperative Education

- Over 3 out of 4 of all U.S. undergraduate students will complete an internship or co-op prior to graduation.
- Over 80% of companies offer experiential learning opportunities as a way to identify talent and eventually recruit full-time employees.
- Employers report that they hire 50% of their intern and co-op students as full-time employees following graduation.

*See also, the **Orientation & Advising** chapter for more information about cooperative education.*

Co-requisite

A co-requisite course is a course that must be taken *concurrently* in the same semester, or has been *previously completed*.

Course Numbering System

The course numbering system indicates the level at which courses are offered. Use the "**Course Descriptions**" for individual course detail.

Course Number	Level of Instruction
000-099	Courses not for baccalaureate degree credit
100-299	Lower-division courses
300-499	Upper-division courses
500-599	Post-baccalaureate and professional level courses
600-699	Graduate level courses
700-799	Doctoral level courses

Credit Equivalency

A semester course that is replacing a quarter course(s) within a department, where both can be considered equivalent for major requirement, articulation, and academic renewal purposes. If a course is equivalent, students who took the quarter version of the course, and passed, cannot then register for and receive credit for the semester version of the course.

Credit Hour/Unit Value

As of July 1, 2011 federal law (Title 34, Code of Federal Regulations, sections 600.2 and 600.4) requires all accredited institutions to comply with the federal definition of the credit hour. All college courses at Cal State East Bay have **unit values** based on the Federal credit hour policy.

For all CSU degree programs and courses bearing academic credit, the "credit hour" is defined as "the amount of work represented in intended learning outcomes and verified by evidence of student achievement that is an institutionally established equivalency that reasonably approximates not less than:

1. One hour of classroom or direct faculty instruction and a minimum of two hours of out-of- class student work each week for approximately fifteen weeks for one semester or trimester hour of credit, or ten to twelve weeks for one quarter hour of credit, or the equivalent amount of work over a different amount of time; or
2. At least an equivalent amount of work as required in paragraph (1) of this definition for other academic activities as established by the institution, including laboratory work, internships, practice, studio work, and other academic work leading to the award of credit hours."

A credit hour is assumed to be a 50-minute period. In courses in which "seat time" does not apply, a credit hour may be measured by an equivalent amount of work, as demonstrated by student achievement.

Cross-listed Courses

Cross-listed courses are two identical courses (**number, title, units, classification and description are the same**), but each have differing course prefixes. Cross-listed courses can belong to differing departments or the same department. An example could be: ABC 123 is cross listed with XYZ 123 - they are the same course except for their prefixes. Cross-listed course-pairs are identified in their corresponding course descriptions.

See also *Prefixes* in this chapter.

Doctoral Degree: defined

Cal State East Bay offers one (Ed.D) doctoral program. A graduate student who wishes to receive a 60-unit doctoral degree in Education should check the Educational Leadership, Ed.D. ** program in this catalog, as well as consult the Doctoral Handbook (available from the Department of Educational Leadership office) for academic load information.

Drop vs. Withdrawal

Drop

The word "drop" refers to official deletion of a course from a student's record. If students cannot continue enrollment in a course for which they enrolled in for that particular semester, they must officially drop the course using *MyCSUEB*. Students cannot "drop" after the end of the Add/Drop period, but they can "withdraw" until the twelfth week of a full semester (shorter terms have different deadlines).

Withdrawal

The word "withdrawal" refers to official termination of enrollment in a class after the Add/Drop period. Students can withdraw from a class only for serious health or personal problems beyond their control.

Dual-listed Courses

Dual-listed courses are those that are identical in content with undergraduate and graduate students taught in the same classroom, with the same instructor, and at the same time. However, the course requirements will be different for the undergraduate and graduate students. The undergraduate course should have an upper division course number (i.e., 300-499); the graduate course will have a 600-level course number.

East Bay "Foundation"

California State University, East Bay Foundation, Inc. is a non-profit auxiliary organization within the California State University system. For over 50 years, the California State University, East Bay Foundation ("CSUEB Foundation") has been making a difference in the educational experience at California State University, East Bay and the overall campus environment. Its only goal is to support the

University's educational mission and to provide quality services that complement Cal State East Bay's instructional programs. In the course of carrying out this mission, the Foundation enhances the University for thousands of faculty, staff, and students.

Having undergone a major reorganization at the end of 2012, the Foundation's main responsibilities include partnering with Follett to manage the Pioneer Bookstore and supporting the Office of Sponsored Research and Programs in its administration of grants received from federal, state and local governments and private foundations.

The CSUEB Foundation is governed by a board of directors comprised of faculty, students, staff, administrators and community members. The Foundation is incorporated as a nonprofit public benefit corporation and is exempt from federal income tax under section 501(c)(3) of the Internal Revenue Code.

Free Electives

Most students have some units not prescribed by general education, the major, or other graduation requirements. These range from no units in a few very large majors to a handful of courses in some relatively low unit majors.

Free electives are courses students are free to select to complete their minimum unit requirements for the degree. Some students complete free electives with whatever looks interesting when they have free hours in their schedules, but most students have a purpose in mind. This could be taking more courses in the major to prepare for graduate school or employment, taking a minor or certificate program (defined in this section) to complement the major (e.g., an English major taking a Marketing minor), or simply following a special interest (e.g., dance or photography). No student is required to do any of these things, but it is important that students understand available choices.

Grade Forgiveness

Grade Forgiveness is the process that matriculated students seeking a bachelor's degree follow, under limited circumstances, to remove the punitive effect of past academic failures.

See also the Grade Forgiveness Policy in the Grading & Academic Standards chapter for additional information.

Grade Point Average (GPA)

The student's grade point average (GPA) is calculated by dividing the total number of quality hours (units attempted, excluding CR/NC courses) into the number of grade (quality) points earned.

A 2.00 (C) average in all college/university courses, all Cal State East Bay courses, and all major courses are required for a baccalaureate degree (excluding "CR," "NC," "W," and "AU" grades). All courses taken as part of the major, including those in other departments are included in the calculation of the major GPA.

See also Academic Grading Symbols for information about grade points.

Graduate Student: defined

A student is considered a Graduate Student at Cal State East Bay if they have been admitted as:

A Post-Baccalaureate Student

A student who has been admitted after receiving a baccalaureate degree. Basic teacher credential programs constitute a separate area of post-baccalaureate work, and students in these programs are defined as "Classified Post-Baccalaureate" students.

A Master's Student

A student that has been admitted to a specific master's degree program as a "Conditionally Classified" or "Classified" student, or to an advanced credential program which can be earned in conjunction with a master's degree. Most master's degrees are designed to be completed in two years if students are attending full time. A graduate student who wishes to receive a 30-unit master's degree in two years needs to enroll in approximately 8 units for four semesters. (Eight units per semester is generally the minimum for full-time status.)

The master's degree is awarded for completion of a planned and integrated program of advanced study. It recognizes that a student has mastered a particular field sufficiently to pursue creative or applied projects in that field.

Students who have completed a graduate degree will have acquired a mastery of a particular area of knowledge; an ability to relate that knowledge to knowledge in other disciplines; an ability to deal systematically with the concepts, theory, and principles in new situations; an ability to formulate and deal with problems on an advanced level; methodological, technical, and communication skills essential for advanced study; an ability to undertake independent investigation and research; abilities characteristic of professional performance; and attitudes conducive to continuous intellectual and professional development.

Every master's degree program includes what is termed a capstone experience. This will include a thesis or its equivalent, a comprehensive examination or an applied or specialized project that documents an internship, or a case study report, a musical recital, gallery showing, or other comparable achievement. Completion of the capstone experience demonstrates that students have successfully integrated the various elements of the graduate learning experience and have gained an in-depth knowledge of their discipline.

A Doctoral Student

A student who wishes to receive a 60 semester-unit doctoral degree in Education. These students should check the Educational Leadership for Social Justice, Ed.D. program chapter in this catalog, as well as consult the Doctoral Handbook (available from the Educational Leadership Department office) for academic load information and specific degree requirements.

Independent Study Course

An Independent Study course is a program of study, which is above and beyond the regular offerings of a department. The number of such a course is 490 and 690. Such a course is considered as elective credit in the program of a student working for a specified objective.

Note: Students may apply no more than 9 units of independent study in the major department and 8 units in other departments to a baccalaureate degree.

The privilege of Independent Study is limited to undergraduate students who have at least a 2.0 (C) grade point average and graduate students with at least a 3.0 (B) grade point average in all courses in the field or department in which the Independent Study is to be taken, both at this institution and in any work attempted at other institutions. If students are on academic probation, they are ineligible for Independent Study. Independent Study is restricted to students who are able to work with minimal supervision. No faculty member is required to teach an Independent Study course, and arrangements must be made to determine how the faculty's teaching overload (if any) will be made up.

Students may obtain applications for Independent Study (Special Registration Petition) in departmental offices. The application, with signatures of approval, is to be returned to the department office during the enrollment period for that term.

A course offered by Independent (or Individual) Study shall be taught only by a professor in the department offering the credit or by a professor the department judges to be competent to teach the particular course.

Individual Study Course

An Individual Study course is a course that is listed in the Cal State East Bay Catalog, but is not being offered during the term in which a student must gain course credit to complete a specified objective. Permission to take such a course may be granted only in cases of necessity, and arrangements must be made to determine how the faculty's teaching overload (if any) will be made up. Students may obtain applications for Individual Study (Special Registration Petition) in departmental offices. They then return the application, with signatures of approval, to the departmental office during the enrollment period for that semester.

Leave of Absence

Planned Educational Leave

A planned educational leave is a documented leave of absence permitted to a student by the University under specific circumstances. Students may petition for a planned educational leave to pursue education related activities which will enhance the prospect of successful completion of their academic programs, but do not require enrollment at Cal State East Bay or any other institution of higher education.

Students who are unable to enroll due to compulsory military service, or because of a documented disability, or because of pregnancy may apply for a leave of absence. Students should be in good academic standing in a program leading to a degree.

Leave Approval

A planned educational leave may be for a period of up to a total of two years (four consecutive semesters) if the student is enrolled in a program leading to a degree. The leave must be approved by the faculty advisor or department chair, and also approved by the Office of the Registrar.

If approved, the student will retain graduation University Catalog rights and may enroll as a continuing student, provided the student returns and enrolls in the same major for the semester indicated. Applications must be received in advance of, and approved before, an official leave can begin. Students who return from leave earlier than planned must notify the Office of the Registrar in writing.

Student's Responsibility

Failure to return from a planned educational leave during the semester indicated means loss of University Catalog rights. These students will be required to apply for readmission and pay an application fee. Download the Planned Educational Leave Form from the Office of the Registrar website and follow the instructions found on the form.

Major: defined

A major is a specified pattern of courses in a particular discipline or group of disciplines. (A list of Cal State East Bay undergraduate majors appears in the bachelor's degree section of Programs of Study by Degree Type.) The major allows students to specialize in one area and to study it in more depth than the one or two courses taken for General Education in other disciplines. Students can design an Interdisciplinary Studies Major with faculty advice and administrative support (see the *Interdisciplinary Studies, B.A. and/or Interdisciplinary Studies, B.S.* chapter of this catalog).

A major is not the same as a career, though some majors are more closely aligned to specific careers than others. There are people in most careers from a wide variety of majors. Most programs of study list career options that are possible for that degree.

A Bachelor of Science (B.S.) degree major often requires more units in the major than a Bachelor of Arts (B.A.) degree major. A Bachelor of Fine Arts (B.F.A.) degree major requires more units than most B.S. or B.A. degree majors because it is so specialized.

Students may declare their major either on their application when they apply to Cal State East Bay or after they enroll by filling out a "Change of Major" form available in the Student Enrollment and Information Center, 1st Floor, Student Services and Administration Building, online at the Student Records Forms website, or in the Student Services Center at the Concord Campus. Students must declare a major by the semester in which they earn junior status (60 units). High unit students may require permission from the Dean of Academic Programs and Services to change their majors.

Students may complete more than one major at the same time with permission. All majors earned will appear on the same diploma. At this time, Cal State East Bay does not admit post-graduate students for second majors.

Master's Degree: defined

The master's degree is awarded for completion of a planned and integrated program of advanced study earned after completion of an undergraduate degree. It recognizes that a student has mastered a particular field sufficiently to pursue creative or applied projects in that field. The minimum number of units for a Cal State East Bay master's program is 30 semester units with a grade point average of 3.0 (on a 4.0 scale), and various other requirements specified in Title 5 of the California Code of Regulations as well as requirements in this University Catalog. It typically requires at least two years of full-time study (or longer if pursued part time) beyond the bachelor's degree. Master's degrees are awarded in various disciplines as M.A. (master of arts), M.S. (master of science) or as discipline-specific degrees such as business (M.B.A), public administration (M.P.A.), or social work (M.S.W).

A master's degree provides students with a mastery of a particular area of knowledge; an ability to relate that knowledge to knowledge in other disciplines; an ability to deal systematically with the concepts, theory, and principles in new situations; an ability to formulate and deal with problems on an advanced level; methodological, technical, and communication skills essential for advanced study; an ability to undertake independent investigation and research; abilities characteristic of professional performance; and attitudes conducive to continuous intellectual and professional development.

Every master's degree program includes what is termed a capstone experience. This may include a thesis or its equivalent, a comprehensive examination, or project. Completion of the capstone experience demonstrates that students have successfully integrated the various elements of the graduate learning experience and have gained an in-depth knowledge of their discipline.

Matriculated Student

A matriculated student is a *regularly enrolled* student after being admitted to the university.

Methods of Instruction

There are three types of methods of instruction:

Hybrid

A hybrid class is taught with the aspects of both on-ground and online environments; access to a computer can be required.

On-ground

An on-ground class is taught entirely face-to-face, exclusively within the classroom; technically a student in such a class would not be required to have computer access.

Online

An online class is taught exclusively in an online environment; access to a computer would be required for all students. No on-campus meetings are required.

Minor: defined

A minor is a coherent program in some field or group of related fields other than a student's major. Minors range in size from 15-30 semester units, at least 9 of which must be upper division. No student is required to have a minor, so it will not appear on the student's record or diploma unless they request it. The minimum grade point average for a minor is 2.00, so students must take at least one course on the A-F grading pattern. At least 9 units must be taken at Cal State East Bay for a minor to be recognized on the student's diploma and/or permanent record.

Courses in a minor may be double-counted in G.E. However, at least 9 semester units of a minor must not be double-counted in the discipline of the major for Cal State East Bay to recognize the minor.

Students who wish to complete a minor must submit a "Change of Major, Minor, Option" form available online at the Student Records Forms website.

Students cannot receive a minor in the same department as their major unless the disciplines are distinct (e.g., French and Spanish, Art History and Studio Art). A minor is recognized only when a baccalaureate degree is awarded.

Multiple Majors

Students can pursue two or more majors simultaneously with permission, making sure they differ from each other by a minimum of 12 units.

The disadvantage of completing multiple majors while working on the same degree is that the student would have to delay graduation until they complete all requirements of all the majors. However, students are checked for completion of the General Education (G.E.) requirements only once.

In the case of multiple degrees, it is possible for students to pursue additional degrees simultaneously or consecutively. If a student completes a second baccalaureate simultaneously with their first baccalaureate, they will not need to take additional residency or G.E. units beyond those required for the degree they indicate as their primary baccalaureate.

Students cannot get two degrees in the same field. For example, a B.A. with a major in Geology and a B.S. with a major in Geology, or a B.S. with a major in Business Administration (concentration in Accounting) and a B.S. with a major in Business Administration (concentration in Marketing) are not allowed.

Note: Although students cannot receive two B.S. degrees in Business Administration, students can receive a single B.S. degree in Business Administration with two concentrations.

Any concentration and minors completed within the student's degree will also be recorded on their diploma and permanent record if requested.

MyCSUEB

A Class Schedule, prepared each semester, lists general information, courses offered, hours, rooms, instructor names, and final examination times. The online Class Schedule is available before enrollment begins in *MyCSUEB* each semester. Important information such as the semester calendar, orientation, important dates, registration, fees, course selection, and student services contact information may be viewed at: www.csueastbay.edu/students/.

Non-catalog Courses

Each semester, Cal State East Bay offers a variety of new courses whose descriptions are not yet in the catalog. Such courses carry full credit as regular courses in the curriculum. Generally, these courses will be numbered 497 or 697; new general education courses will be numbered 196 or 396. Students, therefore, should check with their advisors to confirm which degree requirements these new courses satisfy and not hesitate to take them.

Descriptions of new, non-catalog courses appear in the Class Schedule each semester. A new course may be passed by examination or challenged only after it has been listed in the Class Schedule and has been or is being taught.

Open University

See *University Extension* in this chapter.

Overlays

For more information about what course overlays are, see the General Education Program chapter.

Post-Baccalaureate

A student who has already formally graduated with a bachelor's degree is considered post-baccalaureate; therefore, a "post-bacc" student is also considered a graduate student for purposes of admission. If a post-bacc student wishes to achieve a graduate-level certificate, credential *, master's or doctoral degree, s/he would apply to the University as a graduate student.

** Note: There is a program offered at Cal State East Bay, called Bachelors Plus, that allows for an undergraduate to obtain a baccalaureate degree, as well as complete courses that prepares the student for a multiple subject credential. For more information concerning the Bachelors Plus Early Pathway program, contact both the Liberal Studies Program coordinator and the Department of Teacher Education.*

Prefixes (Course, Dept, College)

Prefixes are abbreviations for colleges, departments, and courses of study. Click on this PDF link for course, department, and college prefix definitions: PDF - 2018-2019 Prefix Definitions

Prerequisites

A prerequisite is another course or group of courses containing necessary background material for full understanding of the course content or a non-course requisite. Some courses have prerequisites. If a course has a required prerequisite (as noted in the course description) it must be successfully completed before enrolling in the course.

Note: While every effort has been made to include prerequisite courses within programs, prerequisite units may not be included in the total program units and therefore should be considered when planning a program roadmap. Consult with an academic/faculty advisor or department for further information concerning prerequisites and program roadmaps.

Special Registration Petitions

Some courses may require a "Special Registration Petition" prior to enrollment that is **available from the department offering the course**. Typically, courses that will require special registration petitions are:

- Independent Study,
- Individual Study,
- Capstone Project,
- Departmental Thesis, or
- University Thesis.

Title IX

Title IX of the Education Amendments of 1972 protects all people regardless of their gender, gender identity, gender expression or sexual orientation from gender discrimination, which includes sexual harassment and violence:

Sex Discrimination means an adverse action taken against a student by the CSU, a CSU employee, or another student because of gender or sex (including sexual harassment, sexual misconduct, domestic violence, dating violence and stalking) that is perpetrated against an individual on a basis prohibited by Title IX of the Education Amendments of 1972, 20 U.S.C. §1681 et seq., and its implementing regulations, 34C.F.R. Part 106 (Title IX); California Education Code §66250 et seq., and/or California Government Code §11135.

Sexual Harassment, a form of sex discrimination, is unwelcome verbal, nonverbal or physical conduct of a sexual nature that includes, but is not limited to, sexual advances, requests for sexual favors, and any other conduct of a sexual nature where:

1. Submission to, or rejection of, the conduct is explicitly or implicitly used as the basis for any decision affecting a complainant's status or progress, or access to benefits and services, honors, programs, or activities available at or through the university; or
2. The conduct is sufficiently severe, persistent or pervasive that its effect, whether or not intended, could be considered by a reasonable person in the shoes of the complainant, and is

- in fact considered by the complainant, as limiting his or her ability to participate in or benefit from the services, activities or opportunities offered by the university; or
3. The conduct is sufficiently severe, persistent or pervasive that its effect, whether or not intended, could be considered by a reasonable person in the shoes of the complainant, and is in fact considered by the complainant, as creating an intimidating, hostile or offensive environment.

Sexual harassment could include being forced to engage in unwanted sexual contact as a condition of membership in a student organization; being subjected to video exploitation or a campaign of sexually explicit graffiti; or frequently being exposed to unwanted images of a sexual nature in a classroom that are unrelated to the coursework.

Sexual harassment also includes acts of verbal, non-verbal or physical aggression, intimidation or hostility based on gender or sex-stereotyping, even if those acts do not involve conduct of a sexual nature.

Executive Order 1097 covers unwelcome conduct of a sexual nature. While romantic, sexual, intimate, personal or social relationships between members of the university community may begin as consensual, they may evolve into situations that lead to sexual harassment or sexual misconduct, including dating or domestic violence, or stalking, subject to this policy.

Claiming that the conduct was not motivated by sexual desire is not a defense to a complaint of harassment based on gender.

Sexual Misconduct

All sexual activity between members of the university community must be based on affirmative consent. Engaging in any sexual activity without first obtaining affirmative consent to the specific activity is sexual misconduct, whether or not the conduct violates any civil or criminal law. Sexual activity includes, but is not limited to, kissing, touching intimate body parts, fondling, intercourse, penetration of any body part, and oral sex. It also includes any unwelcome physical acts, such as unwelcome sexual touching, sexual assault, sexual battery, rape, and dating violence. When based on gender, domestic violence or stalking also constitute sexual misconduct. Sexual misconduct may include using physical force, violence, threat or intimidation, ignoring the objections of the other person, causing the other person's intoxication or incapacitation through the use of drugs or alcohol, or taking advantage of the other person's incapacitation (including voluntary intoxication) to engage in sexual activity. Men as well as women can be victims of these forms of sexual misconduct. Sexual activity with a minor is never consensual when the complainant is under 18 years old, because the minor is considered incapable of giving legal consent due to age.

Sexual Assault is a form of sexual misconduct and is an attempt, coupled with the ability, to commit a violent injury on the person of another because of that person's gender or sex.

Sexual Battery is a form of sexual misconduct and is any willful and unlawful use of force or violence upon the person of another because of that person's gender or sex as well as touching an intimate part of another person against that person's will and for the purpose of sexual arousal, gratification or abuse.

Rape is a form of sexual misconduct and is non-consensual sexual intercourse that may also involve the use of threat of force, violence, or immediate and unlawful bodily injury or threats of future retaliation and duress. Any sexual penetration, however slight, is sufficient to constitute rape. Sexual acts including intercourse are considered non-consensual when a person is incapable of giving consent because s/he is incapacitated from alcohol and/or drugs, is under 18 years old, or if a mental disorder or developmental or physical disability renders the person incapable of giving consent. The respondent's relationship to the person (such as family member, spouse, friend, acquaintance or stranger) is irrelevant.

Acquaintance Rape is a form of sexual misconduct committed by an individual known to the victim. This includes a person the victim may have just met; i.e., at a party, introduced through a friend, or on a social networking website.

Affirmative Consent means an informed, affirmative, conscious, voluntary, and mutual agreement to engage in sexual activity. It is the responsibility of each person involved in the sexual activity to ensure that s/he has the affirmative consent of the other participant(s) to engage in the sexual activity. Lack of protest or resistance does not mean consent nor does silence mean consent. Affirmative consent must be voluntary, and given without coercion, force, threats or intimidation.

- The existence of a dating or social relationship between those involved, or the fact of past sexual activities between them, should never by itself be assumed to be an indicator of affirmative consent. A request for someone to use a condom or birth control does not, in and of itself, constitute affirmative consent.
- Affirmative consent can be withdrawn or revoked. Consent to one form of sexual activity (or sexual act) does not constitute consent to other forms of sexual activity. Consent given to sexual activity on one occasion does not constitute consent on another occasion. There must always be mutual and affirmative consent to engage in sexual activity. Consent must be ongoing throughout a sexual activity and can be revoked at any time, including after penetration. Once consent is withdrawn or revoked, the sexual activity must stop immediately.
- A person who is incapacitated cannot give affirmative consent. A person is unable to consent when s/he is asleep, unconscious or is incapacitated due to the influence of drugs, alcohol, or medication so that s/he could not understand the fact, nature or extent of the sexual activity. A person is incapacitated if s/he lacks the physical and/or mental ability to make informed, rational decisions.
- Whether an intoxicated person (as a result of using alcohol or other drugs) is incapacitated depends on the extent to which the alcohol or other drugs impact the person's decision-making capacity, awareness of consequences, and ability to make fully informed judgments. A person's own intoxication or incapacitation from drugs or alcohol does not diminish that person's responsibility to obtain affirmative consent before engaging in sexual activity.
- A person with a medical or mental disability may also lack the capacity to give consent.
- Sexual activity with a minor (a person under 18 years old) is not consensual, because a minor is considered incapable of giving legal consent due to age.

- It shall not be a valid excuse that a person affirmatively consented to the sexual activity if the respondent knew or reasonably should have known that the person was unable to consent to the sexual activity under any of the following circumstances:
- The person was asleep or unconscious;
- The person was incapacitated due to the influence of drugs, alcohol or medication, so that the person could not understand the fact, nature or extent of the sexual activity;
- The person was unable to communicate due to a mental or physical condition
- It shall not be a valid excuse that the respondent believed that the person consented to the sexual activity under either of the following circumstances:
- The respondent's belief in affirmative consent arose from the intoxication or recklessness of the respondent;
- The respondent did not take reasonable steps, in the circumstances known to the respondent at the time, to ascertain whether the person affirmatively consented.

Consensual Relationships

Consensual relationship means a sexual or romantic relationship between two persons who voluntarily enter into such a relationship. While sexual and/or romantic relationships between members of the university community may begin as consensual, they may evolve into situations that lead to discrimination, harassment, retaliation, sexual misconduct, dating or domestic violence or stalking.

1. A university employee shall not enter into a consensual relationship with a student or employee over whom s/he exercises direct or otherwise significant academic, administrative, supervisory, evaluative, counseling, or extracurricular authority. In the event such a relationship already exists, each campus shall develop a procedure to reassign such authority to avoid violations of this policy.
 - This prohibition does not limit the right of an employee to make a recommendation on the personnel matters concerning a family or household member where the right to make recommendations on such personnel matters is explicitly provided for in the applicable collective bargaining agreement or MPP/confidential personnel plan.

Domestic Violence is abuse committed against someone who is a current or former spouse, current or former cohabitant, someone with whom the respondent has a child, someone with whom the respondent has or had a dating or engagement relationship, or a person similarly situated under California domestic or family violence law. Cohabitant means two unrelated persons living together for a substantial period of time, resulting in some permanency of relationship. It does not include roommates who do not have a romantic, intimate, or sexual relationship. Factors that may determine whether persons are cohabiting include, but are not limited to (1) sexual relations between the parties while sharing the same living quarters, (2) sharing of income or expenses, (3) joint use or ownership of property, (4) whether the parties hold themselves out as spouses, (5) the continuity of the relationship, and (6) the length of the relationship. For purposes of this definition, "abuse" means intentionally or recklessly causing or attempting to cause bodily injury or placing another person in reasonable apprehension of imminent serious bodily injury to himself or herself, or another. Abuse does not include non-physical, emotional distress or injury.

Dating Violence is abuse committed by a person who is or has been in a social or dating relationship of a romantic or intimate nature with the victim. This may include someone the victim just met;

i.e., at a party, introduced through a friend, or on a social networking website. For purposes of this definition, "abuse" means intentionally or recklessly causing or attempting to cause bodily injury or placing another person in reasonable apprehension of imminent serious bodily injury to himself or herself, or another. Abuse does not include non-physical, emotional distress or injury.

Stalking means engaging in a repeated course of conduct directed at a specific person that would cause a reasonable person to fear for his/her or others' safety or to suffer substantial emotional distress. For purposes of this definition:

1. Course of conduct means two or more acts, including but not limited to, acts in which the stalker directly, indirectly, or through third parties, by any action, method, device, or means, follows, monitors, observes, surveils, threatens, or communicates to or about a person, or interferes with a person's property;
2. Reasonable person means a reasonable person under similar circumstances and with the same protected status(es) as the complainant;
3. Substantial emotional distress means significant mental suffering or anguish that may, but does not necessarily, require medical or other professional treatment or counseling.

Note: See further information in Cal State East Bay's sexual violence prevention and education statement, Title IX Notice of Nondiscrimination at <http://www.csueastbay.edu/af/departments/risk-management/investigations/files/docs/notice-of-non-discrimination.pdf> which includes facts and myths about sexual violence at: <http://www.csueastbay.edu/af/departments/risk-management/files/docs/eo-1095-attachment-b-myths-and-facts-2015.pdf>, and Victim's Rights and Options Notice at <http://www.csueastbay.edu/af/departments/risk-management/risk/files/docs/eo-attachment%20c.pdf>

Undergraduate Status: Class Standing

Undergraduate students are assigned a class standing according to the following plan:

Semester Units Earned Toward the Degree

Lower Division:

Freshmen	Fewer than 30 units
Sophomores	30 but fewer than 60 units

Upper Division:

Juniors	60 but fewer than 90 units
Seniors	90 or more units

Graduating Seniors	100 or more earned units, filed for graduation, and paid the graduation filing fee

Undergraduate Status: Full or Part-time

The following classifications apply to students enrolled in the fall and spring semesters (not University Extension non-degree programs and shorter sessions including summer):

1. Full-time undergraduate students (including students seeking a second baccalaureate) are those enrolled in 12 or more units in a regular semester. Part-time undergraduate students are those enrolled in fewer than 12 units.
 - o *Note: that in order to graduate in 4 years or 8 semesters, students must complete an average of 15 units per semester.*
2. Full-time enrollment for veterans (or dependents of disabled or deceased veterans), or reservists under Chapter 30, 31, 33, 34, 35, or 106 is 12 or more units, according to V.A. regulations. Each semester, veterans and eligible dependents should consult the Veteran Affairs Coordinator before the first day of classes and submit their forms requesting certification of enrollment for V.A. benefits. More information can be found on the Veteran Student Admission page.

University Extension

General Information

Information on courses, programs, and enrollment procedures is available through Continuing Education's course schedule each semester on the University website at www.ce.csueastbay.edu, by phone (510-885-3605), and by e-mail ce@csueastbay.edu.

Continuing Education

Continuing Education (CE) at Cal State East Bay features a broad spectrum of degree and certificate programs, as well as individual courses that complement the University's regular curriculum, and meet the academic, professional, creative, and lifelong learning goals of its diverse community.

CE designs programs and courses to fulfill the needs of current job market trends, enhance professional development, and promote personal enrichment. Offering more than 40 degree and certificate programs in a variety of industries and fields, CE allows students to explore career options and pursue opportunities for advancement.

Students may take one or more individual courses, enroll in a degree or certificate program, or attend a seminar or conference. In some cases, academic credit is awarded; while in others, Continuing Education Units (CEUs) are available. In programs designed specifically for personal enrichment, no academic credit is awarded.

American Language Program

The University's American Language Program provides instruction for international students in academic English and introduces them to American culture. Each year, students from more than 25 countries enroll in the program. After graduating from the American Language Program, international students often enroll as matriculated students in the University.

Open University Concurrent Enrollment

The "Open University" program allows individuals to enroll in regular University classes without being formally admitted to the University. Regularly enrolled students are not eligible to take Open University courses. A student enrolled in Open University may:

- Examine a field of study before committing to a degree program
- Update job skills or obtain professional training
- Attend classes on a non-continuous basis
- Raise their grade point average prior to application
- Enroll in classes if they've missed the Cal State East Bay application deadline

Open University students will be granted "Open University" extension credit for coursework. There are limits on the number of Open University extension units that may be applied toward University degrees. Up to 24 units may be applied towards a baccalaureate degree and up to 9 units for a master's degree.

Most courses taught by regular Cal State East Bay faculty are available to students through Open University. To enroll in an Open University course, applicants must complete an online Open University application form each term they wish to attend. The application deadline is the eighth instructional day of the term. Go to <https://www.ce.csueastbay.edu/ce/programs/open-university/> to apply online and view application deadlines. Late applications will not be accepted.

Restrictions

Continuing Education registration, in most courses or programs, does not require formal admission to the University. For some programs, however, students may be required to meet certain requirements prior to being eligible to register. Only registration in self-support Special Session classes provides "continuing student" status to admitted, matriculated students.

Academic Calendar

Please check the current Class Schedule on *MyCSUEB* for any calendar updates. This calendar is not an employee work calendar.

Note: the final examination period extends through the final weekend of the semester for classes meeting only on weekends.

Fall Semester 2018

Aug. 17	Opening of fall semester; faculty meetings

Aug. 17	Advisement day

Aug. 20	Classes begin

Sept. 3	Labor Day (University closed)

Oct 22	Last day to submit thesis to Graduate Studies office (<i>See Errata chapter for date correction</i>)

Nov. 12	Veterans Day observed (University closed)

Nov. 19-23	Thanksgiving recess (no classes)

Nov. 22-23	Thanksgiving holiday (University closed)

Dec. 7	Last day of instruction

Dec. 10-15	Final examinations

Dec. 16	End of semester

Dec. 17	Academic recess begins

Spring Semester 2019

Jan. 22	Opening of spring semester; Classes begin

Mar 25	Last day to submit thesis to Graduate Studies office (<i>See Errata chapter for date correction</i>)
Apr. 1	Cesar Chavez Day observed (University closed)
Apr. 1-5	Spring recess (no classes)
May 10	Last day of instruction
May 13-18	Final examinations
May 17, 18, 19	Commencement Ceremonies
May 19	End of semester
May 20	Academic recess begins
Summer Session 2019	
June 3	Opening of summer session; Classes begin
July 4	Independence Day (University closed)
July 26	Last day of instruction
July 29-Aug. 3	Final examinations
Aug. 5	Academic recess begins

University Administration

- Office of the President
- Academic Affairs
- College Deans, University Library, Department Chairs, and Program Directors
- Academic Senate
- Administration & Finance
- Student Affairs
- University Advancement
- Cal State East Bay Educational Foundation Board

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- Executive Office Manager: Dwyla Jourdan
- Associate Director, Government and Community Relations: Satinder S. Malhi

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Catalog Revisions & Policies

- Rules & Policies
- Catalog Production
- Curriculum Proposal Process
- e-Catalog
- Revisions of General & Curricular Information

Changes on Rules and Policies

Although every effort has been made to assure the accuracy of the information in this catalog, students and others who use this catalog should note that laws, rules, and policies change from time to time and that these changes may alter the information contained in this publication. Changes may come in the form of statutes enacted by the Legislature, rules and policies adopted by the Board of Trustees of the California State University, by the chancellor or designee of the California State University, or by the president or designee of the campus. It is not possible in a publication of this size to include all of the rules, policies and other information that pertain to students, the institution, and the California State University. More current or complete information may be obtained from the appropriate department, school, or administrative office.

Nothing in this catalog shall be construed as, operate as, or have the effect of an abridgment or a limitation of any rights, powers, or privileges of the Board of Trustees of the California State University, the chancellor of the California State University, or the president of the campus. The trustees, the chancellor, and the president are authorized by law to adopt, amend, or repeal rules and policies that apply to students. This catalog does not constitute a contract or the terms and conditions of a contract between the student and the campus or the California State University. The relationship of students to the campus and the California State University is one governed by statute, rules, and policy adopted by the legislature, the trustees, the chancellor, the presidents and their duly authorized designees.

Catalog Production

Acknowledgments

The online University Catalog is produced under the direction of the Dean, Academic Programs and Services, Maureen Scharberg. Department chairs, administrators, and staff also contributed to this team effort.

Editor and Project Supervisor: Sarah Aubert, Catalog and Curriculum Analyst/Specialist, Academic Programs and Services

Editor: Sandra Claflin, Catalog Coordination & Process Editor & Curriculum Analyst, Academic Programs and Services

Curriculum Proposal Process

There are different approval processes for different types of curriculum proposals. Please refer to the Curricular Procedures Manual and/or consult with the University Curriculum Coordinator.

Why can't courses and programs be modified mid-year?

Student catalog rights are governed by the catalog in effect at the time they declare their undergraduate major/minor or are admitted to a graduate degree program. To avoid confusion, and to honor CSUEB's agreement with the student, degree requirements and courses cannot be revised mid-year.

Why can't updates be made to the faculty list in the departmental chapters as changes occur?

All faculty changes (including the appointment of departmental Chairs) need to be verified by the Provost's Office as effective beginning the fall semester that the catalog is effective. Updating the faculty lists each year requires more time than is currently available for the staff in the Provost's Office and the staff in the Office of Academic Programs and Services. For an updated and comprehensive list of all university faculty, emeriti faculty, and lecturers with 3-year contracts, visit the Office of Academic Affairs website.

Why don't all the department's emeriti faculty appear in the departmental chapter's faculty list?

Only the names of emeriti faculty who are currently teaching in the department appear in the departmental chapter. All emeriti faculty, however, appear in the comprehensive faculty list maintained by the Office of Academic Affairs (see above), with the exception of those who are deceased.

Regarding additional questions, who should be contacted?

For questions concerning the catalog production process: contact the Catalog Editor, Office of Academic Programs and Services (4th Floor, Student Services and Administration Building).

For questions concerning the status of a curriculum proposal please check the proposal status in Curriculog or: **contact the** University Curriculum Coordinator.

e-Catalog

Beginning Catalog 2015-2016, the e-catalog has been published via *Acalog ACMSTTM Publisher*. The e-catalog is also now available through most mobile devices. Questions and concerns regarding the content, layout, or our mobile application should be directed to the Catalog Editor. The current online University Catalog includes all approved curricular updates effective for Fall - Summer of the current year. Archived catalogs can be found in the Archived Catalogs chapter of this catalog.

Adobe Reader is available [here](#).

Revisions of General & Curricular Information

General Information:

Includes all revisions of narrative text in the general information chapters of the catalog. It also includes edits made to general program description narratives, and departmental chapters if revision through Curriculog is not required. General information and program description information changes do not require an approved curricular proposal. The general information chapters, program descriptions, and the faculty lists in the catalog are revised every year.

Fall Semester:

The *general information* and *program description narrative* pages are made available by the Catalog Editor via Acalog for all designated "Editors" of the appropriate administrative & department offices. Email instructions will be sent to Editors that will include a specified deadline for completing any necessary editing.

Curricular Information:

Only curricular changes approved via Curriculog's approval process will appear in Acalog. The Office of Academic Programs and Services will determine deadlines for each academic year's curricular changes and will contact departments via email, which will include necessary instructions. Contact the University Curriculum Coordinator for more information.

Course Errata

The following is a list of course corrections appended to this catalog:

(alpha order by prefix)

ART 323 Modern Media, Art, and Culture I

Effective January 22, 2019

- Social Justice overlay added.

ART 472 - Painting III

Effective January 22, 2019

- Repeatability shall be modified to read: Course may be repeated for credit for a maximum of 12 units.

BAN 612 - Data Analytics

Effective August 20, 2018

- Prerequisites shall be modified to read: BAN 601 and BAN 602

BAN 632 - Big Data Technology and Applications

Effective August 20, 2018

- Prerequisites shall be modified to read: BAN 601 and BAN 610

BAN 660 - Advanced Topics in Big Data

Effective August 20, 2018

- Prerequisites shall be modified to read: BAN 601

BAN 670 - Advanced Topics in Analytics

Effective August 20, 2018

- Prerequisites shall be modified to read: BAN 601 and BAN 602

BAN 671 - Data Analytics with R

Effective August 20, 2018

- Prerequisites shall be modified to read: BAN 601 and BAN 602

BAN 672 - Data Analytics with SAS

Effective August 20, 2018

- Prerequisites shall be modified to read: BAN 601 and BAN 602

BAN 674 - Machine Learning for Business Analytics

Effective August 20, 2018

- Prerequisites shall be modified to read: BAN 601 and BAN 602

BUS 603 - Managing Complex Issues in Global Context

Effective January 22, 2019

- Prerequisites shall be modified to read: Post-baccalaureate standing.

CMGT 340 - Construction Cost Estimating

Effective January 22, 2019

- Course description shall be modified to remove: "*Lecture units: 2; Lab units: 1*".

COMM 497 - Issues in Communication

Effective January 22, 2019

- Repeatability shall be modified to read: May be repeated for credit for a maximum of 12 units.

CS 101 - Computer Science I

Effective January 22, 2019:

- Equivalent Quarter Course shall be modified to remove: CS 1160.

CS 201 - Computer Science II

Effective January 22, 2019:

- Equivalent Quarter Course shall be modified to remove: CS 2360.

CS 471 - Security and Information Assurance

Effective August 20, 2018

- Equivalent Quarter Course shall be modified to remove: CS 4245.

- Equivalent Quarter Course shall be modified to read: CS 4525 or CS 4526 or CS 4527.

EPSY 696 - Advanced Practicum

Effective January 22, 2019:

- Grading pattern shall be modified to read: CR/NC grading only.

GEOL 432 - Hydrogeology

Effective January 22, 2019:

- Course description shall be modified to include: Lecture units: 3; Lab units: 1.

GS 321 - General Studies for Students in Special Transfer Programs I

Effective August 20, 2018

- Course title shall be modified to read: Strategies for Success in College and Career I
- Course description shall be modified to read: Designed especially for transfer students, this course focuses on the strategies and resources that support the transition to CSUEB, bolsters academic success, builds community, and develops skills for career exploration. Offered in Fall semester.

GS 322 - Strategies for Success in College and Career II

Effective January 22, 2019

- Course units shall be modified to 2 units.
- GE area E and Diversity overlay added only if students also completed GS 321 in fall 2018.

GS 331 Community Engagement and Leadership Seminar for GANAS I

Effective August 20, 2018

- Course approved for Possible Instructional Methods: Entirely On-ground, or Hybrid Only.

GS 332 Community Engagement and Leadership Seminar for GANAS II

Effective August 20, 2018

- Course approved for Possible Instructional Methods: Entirely On-ground, or Hybrid Only.

HIST 321 - Communism as Civilization

Effective January 22, 2019

- Course shall be modified to include G.E/G.R. Area Satisfied and read: *C4 - Upper Division Arts or Humanities, Overlay - Social Justice.*

HIST 351 - Russia: Peter to the Present

Effective January 22, 2019

- Course shall be modified to include G.E/G.R. Area Satisfied and read: *C4 - Upper Division Arts or Humanities, Overlay - Sustainability*

HIST 373 - The American Revolution

Effective January 22, 2019

- Course shall be modified to include G.E/G.R. Area Satisfied and read: *C4 - Upper Division Arts or Humanities.*

HIST 477 History and Trends in Nursing

Effective January 22, 2019

- GE C4 and Diversity overlay added.

HSC 398 - Internship

Effective January 22, 2019

- Grading pattern shall be modified to read: A-F grading only.

KIN 490 - Independent Study

Effective August 20, 2018

- Repeatability shall be modified to read: May be repeated for a maximum of 9 units.

MKTG 305 - Business Communication

Effective January 22, 2019

- Course description shall be modified to remove: "fulfills Writing II for transfer students who have completed an approved transfer program without a second composition course".

MLL 344 Spanish Linguistics and Phonetics

Effective August 20, 2018

- Course approved for Possible Instructional Methods: Entirely On-ground, or Entirely Online, or Hybrid.

MUS 111 - Music Theory I

Effective August 20, 2018

- Prerequisites shall be modified to read: MUS 108 or satisfactory score on the Music Theory Advisory Exam.

MUS 600 - Seminar in Research Methodology

Effective January 22, 2019

- Prerequisites shall be modified to read: Post-baccalaureate standing.

NURS 450 Community Health Nursing

Effective August 20, 2018

- Social Justice overlay has been removed.

NURS 451 Community Health Nursing Practice

Effective January 22, 2019

- Social Justice overlay has been added.

OTL 601 - Introduction to Online Teaching and Learning

Effective January 22, 2019

- Prerequisite shall be modified to read: Post-baccalaureate standing.

OTL 602 - Instructional Design Models for Online Learning

Effective January 22, 2019

- Prerequisite shall be modified to read: M.S. Education, Online Teaching and Learning majors only.

OTL 693 - Capstone Project

Effective January 22, 2019

- Prerequisite shall be modified to read: Completion of UWSR and M.S. Education, Online Teaching and Learning majors only.

REC 480 - Internship

Effective August 20, 2018

- Repeatability shall be modified to read: May be repeated for credit for a maximum of 6 units.

SOC 470 - Sociology of Travel and Tourism

Effective January 22, 2019

- Course description shall be modified to read: Sociological perspectives on travel and tourism industry intertwined with multiple social institutions and social forces. Social contexts revealed through analyses of relationships between travel and tourism, consumption, cultural commodification, global relations of power and privilege, social inequality, and socio-cultural identities.
- Prerequisites shall be modified to read: SOC 100.

SPPA 611 Aural Rehabilitation

Effective August 20, 2018

- Course approved for Possible Instructional Methods: Entirely On-ground, Entirely Online, or Hybrid.

SPPA 695 - Practicum: Treatment

Effective August 20, 2018

- Repeatability shall be modified to read: May be repeated for credit for a maximum of 8 units.

STAT 697 - Issues in Statistics

Effective January 22, 2019

- Course units shall be modified to variable units: 2-4

TED 613 - Implementing and Analyzing Research in P-12

Effective August 20, 2018

- Students who have completed TED 613 have satisfied the University capstone requirement.

Program/Degree Errata

The following is a list of program/degree corrections appended to this catalog:

(alpha order by program/degree)

Art, B.F.A.

Effective January 22, 2019

- Upper-division Foundation Requirements shall include: Course ART 440
- Course ART 491 ad hoc shall state: (*BFA Critique is taken 3 times)

Business Administration, B.S.

Effective August 20, 2018

Major Requirements minimum grade changes:

- All lower division core, upper division core, and concentration courses are 3 semester units each, and must be taken for a letter grade. Credit/No Credit is not accepted.
- Except for BUS 499, each course (including lower division, upper division, and concentration courses) must be completed with a letter grade of "C-" or better.
- BUS 499 must be completed with a letter grade of "C" or better.

Business Administration, M.B.A.: General Business Concentration

Effective August 20, 2018

Master of Business Administration One-Year Intensive Program

- Students can pursue the General Business Concentration by also applying to the M.B.A. One-Year Program offered through University Extension.

Educational Leadership, Ed.D. **

Effective April 22, 2008

- Correct degree title is Educational Leadership, Ed.D. Students will earn a doctorate degree in Educational Leadership. The doctoral program is Educational Leadership for Social Justice.

French, B.A.

Effective August 20, 2018

- Upper Division Coursework requirements shall include the following language: "Students who are NOT exempt from lower-division coursework must complete 21 units as outlined below. Students exempt from lower-division coursework must complete additional upper-division coursework to meet the 24-unit minimum for a B.A. degree."

Health Sciences, B.S.

Effective August 20, 2018

Upper Division Core section shall read as follows:

The following 18 units of Health Science coursework is required:

- HSC 300 - Environmental Health Units: 3 ; G.E./G.R. Area: B6; Sustainability
- HSC 315 - Public Health Units: 3
- HSC 330 - Epidemiology Units: 3
- HSC 355 - Bioethics or PHIL 312 Bioethics Units: 3
- HSC 360 - Health Law Units: 3
- HSC 400 - Health Policy Research and Analysis Units: 3

Elective Courses for Students Not Selecting a Concentration shall read as follows:

Students who do not select a concentration must select an additional 30 units in consultation with an advisor. These electives must be chosen as part of a course plan designed in consultation with an advisor to achieve a student's learning goals. The course plan must be approved and filed before taking elective courses. Students may review courses to construct a plan by using the Course Description link in the catalog. All Health Sciences courses have an HSC prefix.

Students who do not create a course plan with an advisor must select 30 units from the following courses:

- BIOL 270 Human Anatomy and Physiology I (4 units)
- BIOL 271 Human Anatomy and Physiology II (4)
- PHYS 125 Principles of Physics I (4)
- CHEM 111 General Chemistry I (5)
- CHEM 112 General Chemistry II (5)
- CHEM 230 Survey of Organic Chemistry (5)
- CHEM 340 Survey of Biochemistry (3)

Any HSC-prefix course except those listed in the Lower Division Core; the Upper Division Core; the Capstone Requirement; or any HSC course designated "not for major credit". Classes in the Lower Division Core; the Upper Division Core; and the Capstone Requirement cannot be used as electives.

Industrial Engineering, B.S.

Effective: August 20, 2018

- Correction of total units for program: Industrial Engineering, B.S. Program **(122 units)**
- Degree Requirements Unit-Outline: A baccalaureate of science degree requires a total of 122 units:

Interdisciplinary Studies, B.A. Interdisciplinary Studies, B.S.

Effective August 20, 2018

- The total units are 35-62 semester units.

Liberal Studies Teacher Multiple Subject Preparation Program

Effective August 20, 2018

- This waiver/certificate program does not currently exist and is not available to students. This catalog entry will be removed.

Psychology, B.S.: Ergonomics and Human Factors Concentration

Effective August 20, 2018

Correction to typographical error of listed units:

- MATH 131 Calculus II is erroneously listed as a 4-unit course under the concentration electives: MATH Group. This course is actually a 3-unit course, which is correctly displayed under the course description tooltip and the error does not affect the overall concentration unit requirements.

Speech-Language Pathology, M.S.

Effective August 20, 2018

- The total units are 66-68 semester units.

Non-curricular Errata

The following is a list of non-curricular corrections appended to this catalog:

(alpha order by area)

Academic Calendar

Effective August 20, 2018

Fall and Spring semester thesis submission dates shall be modified to:

- October 26, 2018; and,
- March 29, 2019.

Advanced Placement (AP) Exam Credit

Effective August 2018

Document shall include the corrected statement:

"Course credit may be used to satisfy requirements in the major or GE. "

Graduate Study Completion

Effective August 20, 2018

The entirety of this area shall read as follows:

Students who have completed all the units required for their master's degree but are still working on their capstone experience (thesis, project, or studying for a comprehensive exam) may have continued access to University facilities by registering for XXXX 890 Graduate Study Completion course through University Extension, Continuing and International Education. **(Students should register for the course within their major prefix; e.g. graduate chemistry majors should register for CHEM 890).** This is a 1-unit course with a fee of \$134 (fee subject to change).

Registering for XXXX 890 will provide students with:

- a valid Student ID card,
- the ability to check books out of the library,
- remote access to computerized databases in the library,
- use of computer labs on campus,
- the ability to continue to work on projects in science labs,
- eligibility to purchase a parking permit, and
- access to other benefits enjoyed by regularly registered students.

Enrollment in XXXX 890 also qualifies as enrollment for students who are serving as a teaching associate. Note: XXXX 890 cannot be used to satisfy any unit or course requirements for a master's degree.

Students may register by picking up a "XXXX 890 Graduate Study Completion Form" in their department or in the University Extension Office in SF 102. Note: Students will need to obtain a signature from their major department.

Graduation Requirement in Writing Proficiency (UWSR)

Effective August 20, 2018

The entirety of this area shall read as follows:

The California State University system requires that all students must demonstrate competency in writing skills as a requirement for graduation and to receive a baccalaureate, master's, or doctoral degree. This requirement was implemented system-wide in 1977. Students must satisfy the University Writing Skills Requirement (UWSR) in order to receive a degree from Cal State East Bay unless they are exempt by one of the following criteria:

- The student previously satisfied the UWSR at Cal State East Bay or at another CSU campus. In this case, Cal State East Bay will accept an official certification of completion if the entire requirement, as specified by that CSU campus, was satisfied and the student was a matriculated student at that campus at the time. On some CSU campuses, the requirement is called the "Graduation Writing Assessment Requirement (GWAR)."
- The student graduated from any one of the CSU campuses; unless it is noted on the transcript that the UWSR (or GWAR) was not satisfied.
- The student received an essay score of 4.5 or higher on the GMAT or GRE or an essay score of 53 or higher on the CBEST.

Undergraduate Students

Undergraduate students are required to begin steps to satisfy the University Writing Skills Requirement after completing 60 semester units. Students who do not enroll in an appropriate course or register to take the Writing Skills Test in their first semester after completing 60 units will have a registration hold placed. The hold will be lifted as the student progresses towards completion of this requirement. Note: Undergraduate students cannot satisfy this requirement before completing 60 units. For undergraduate students, completion of GE Area A2 and ENGL 200 or another approved second composition course, which are graduation degree requirements, is also required before attempting to satisfy the UWSR.

Graduate Students

Graduate students are required to begin steps to satisfy the University Writing Skills Requirement by the end of their first semester in "Conditionally Classified graduate" status. Students who do not enroll in an appropriate course or register to take the Writing Skills Test in their first semester in "Conditionally Classified graduate" status may have a registration hold placed and may be dropped from their classes. The hold will be lifted as the student progresses towards completion of this

requirement. The UWSR must be satisfied before the student can be admitted as a "Classified Graduate" student and, consequently, before the student can be advanced to candidacy and receive a degree.

To satisfy the requirement at Cal State East Bay, students may do one of the following:

- Option One: Register for and pass the Writing Skills Test. See Writing Skills Test (Option One) below.
- Option Two: Enroll in and pass a first-tier writing course (ENGL 300 or ENGL 301) and possibly a second-tier course, as well. See Course (Option Two) below.

Writing Skills Test (Option One)

The Writing Skills Test (WST) consists of an analytic essay that requires students to demonstrate that they can think and write critically. A score of Clear Competence (8) is needed to meet the requirement. Students who do not receive the Clear Competence designation on the first attempt have only one opportunity to take it again; a score of Clear Competence on the second attempt satisfies the requirement. If both tests are scored as "Limited Competence (6)", they will be required to take the course option (see below). If one or both scores is "Developing Competence (7)", they need only take a second-tier course to satisfy the UWSR (see below).

Note: There is a fee for the WST. See the Fees & Financial Services chapter for more information.

Course (Option Two)

ENGL 300 and ENGL 301 are the first-tier writing courses designed to help students meet the University Writing Skills Requirement. Students who have not attempted the WST or those who have taken the Writing Skills Test (WST) and have received Limited Competence (6) must take either ENGL 300 or ENGL 301 and perhaps a second-tier writing course as well. Students who have not taken the WST twice may take it even when enrolled in a writing skills course. Generally speaking, ENGL 300 is intended for native speakers of

English, while ENGL 301 is intended for non-native speakers. Based on end-of-course portfolio evaluation scores, at the end of the first-tier course they will be advised as to their next step, which will involve one of the following: they may be found to have met the UWSR requirement altogether; they may be directed to enroll in a second-tier course; or, they may be directed to repeat the first tier course.

Generally, two second-tier writing courses are regularly offered: ENGL 302 and MKTG 305 . Students who passed the quarter-based equivalents to these courses (ENGL 3003 and MKTG 3495) prior to fall 2000 may not have met the UWSR. For more information on these courses, contact the individual department. Students who pass a second-tier writing course with a C- or better (or "CR" if taken as CR/NC) have satisfied the UWSR.

Courses approved as a "Second Tier Writing" course. Passing a course listed below satisfies the University Writing Skills Requirement. All courses have the prerequisite of 7 on the WST or ENG 300 or ENG 301.

Undergraduate

- ENGL 302 Discursive Writing

- ES 300 Writing for Social Justice
- HIST 301 Historical Writing
- MKTG 305 Business Communication

Graduate

These courses may be limited to students in the respective graduate programs.

- BUS 603 Managing Complex Issues in Global Context
- EDLD 600 Leading for Social Justice and Equity in Urban Schools
- MUS 600 Seminar in Research Methodology

Students who have taken the first-tier writing course three times consecutively, have not passed, and have a letter of good faith effort from their most recent first-tier instructor may apply to the Dean of Academic Programs and Services for a waiver of the UWSR. If a waiver is granted, the student's permanent record will note that they were allowed to graduate without having satisfied the UWSR. Students who do not satisfy the requirement and do not have a waiver approved will not be allowed to graduate. Contact the Dean of Academic Programs and Services for information on this waiver at (510) 885-2990.

If a student receives a grade of "D+" or "D" in a second-tier writing course (taken Fall Quarter, 2000 or later), they may appeal to the Dean of Academic Programs and Services for a waiver of the UWSR. If a waiver is granted, their permanent record will note that they were allowed to graduate without having satisfied the UWSR. Students who do not satisfy the requirement and do not have a waiver approved will not be allowed to graduate. Contact the Dean of Academic Programs and Services for information on this waiver at (510) 885-2990.

Students who have a verified disability and would like to request accommodations to assist them in satisfying this requirement should contact the Accessibility Services in the Library Complex 2440 or call (510) 885-3868 (phone/TTY).

For more information on meeting the University Writing Skills Requirement, see the Testing Office website or call (510) 885-3661.

Programs Leading to Licensure & Credentialing

Effective August 20, 2018

The last paragraph shall read:

(Students in Biological Science, Educational Psychology, Engineering, Kinesiology, Liberal Studies, Nursing, and Teacher Education, in particular should be aware of these provisions.)

Required Units for Full-time Graduate Students

Effective August 20, 2018

The entirety of this area shall read as follows:

Full-time enrollment for "Graduate" students and "Classified Postbaccalaureate" students is 8 or more units for financial aid, F-1 and J-1 visas, and for veterans (or dependents of disabled or deceased veterans) or reservists (under Chapter 30, 31, 33, 34, 35, or 1606).

Note: Each semester, veterans and eligible dependents should consult the Veteran Benefits Coordinator before the first day of classes and submit their forms requesting certification of enrollment for V.A. benefits. Also, graduate students who apply for Veterans' Benefits (or for benefits as dependents of disabled or deceased veterans), international students wishing Department of Homeland Security certification, student athletes wishing to compete in intercollegiate sports, and students on most types of financial aid must be enrolled in courses that apply to a definite program (master's degree and/or credential).

Upper Division GE Requirements (9 Semester Units) and Learning Outcomes

Effective August 20, 2018

The introduction paragraph has been modified. It shall read as follows:

"At least 9 of the 48 semester units of GE must be from approved upper-division GE courses taken within the CSU. At CSUEB, upper-division courses are numbered 300 and above. Upper-division GE should not be taken until earning a minimum of 60 semester units in all baccalaureate-level coursework. Lower-division GE courses in Areas A1, A2, A3, and B4 must be passed with grades of C- (CR) or better before enrolling in any upper-division GE course."

Military & Veterans Information & Services

- Selective Service
- Servicemember's Opportunity College
- Veteran Student Services
- Veteran's Admission
- Dependents of Veterans
- Enrollment for Veterans & Reservists
- Credit for Military Training and USAFI
- Credit for Non-collegiate Instruction
- Fee Waivers & Exemptions (Section 66025.3 of the CEC) (See chapters: Undergraduate Fees & Financial Services or Admission, Enrollment, & Fees)

Selective Service

The federal Military Selective Service Act (the "Act") requires most males residing in the United States to present themselves for registration with the Selective Service System within thirty days of their eighteenth birthday. Most males between the ages of 18 and 25 must be registered. Males born after December 31, 1959, may be required to submit a statement of compliance with the Act and regulations in order to receive any grant, loan, or work assistance under specified provisions of existing federal law. In California, students subject to the Act who fail to register are also ineligible to receive any need-based student grants funded by the state or a public postsecondary institution.

Selective Service registration forms are available at any U.S. Post Office, and many high schools have a staff member or teacher appointed as a Selective Service Registrar. Applicants for financial aid can also request that information provided on the Free Application for Federal Student Aid (FAFSA) be used to register them with the Selective Service. Information on the Selective Service System is available and the registration process may be initiated online at <http://www.sss.gov>

Servicemember's Opportunity College

Cal State East Bay is a Servicemember's Opportunity College (SOC) and provides educational assistance for active duty servicemembers. SOC institutions offer the following benefits to servicemembers:

1. Admission procedures which ensure access to higher education for academically qualified military personnel;
2. Credit awarded for knowledge acquired through military experiences, if applicable to the servicemember's program of study;
3. Credit awarded for non-traditional learning, if applicable to the servicemember's program of study;
4. Acceptance of inter-institutional transfer credits, if they are appropriate for the servicemember's program and are consistent with the university's curriculum;
5. Residence requirements may be adjusted for military students who transfer, when there are other assurances of program balance;

6. Personnel with appropriate academic qualifications and experience administer and supervise SOC-related activities;
7. Educational services for veterans.

For information about the SOC program, contact the Veterans Affairs Coordinator.

Veteran Student Services

Veteran Student Services (VSS) provides wraparound student support services to all CSUEB veteran students. Program services are organized around three key areas:

1. One-on-one holistic academic counseling for veterans that includes academic advisement, career & goal planning, scholarship guidance, graduate school advising, guidance on balancing academic and personal life.
2. Benefits advising for veterans, reservists, and dependents of veterans on completing and filing VA claim forms for federal and state education assistance programs, including assistance with special procedures for veterans priority registration and dependents CalVet College Fee Waiver program.
3. Developing and implementing student programs, both social and educational, recognizing the needs and interests of our veteran student population.

Veteran Student Services, Library Annex (LI) 2200, Email

- Veterans Benefits Coordinator: Deborah Dorffi Hansana, (510) 885-3669
- Veterans Retention Coordinator: Cherie Randolph, (510) 885-2244

Veteran's Admission

Veterans who meet the admission requirements may attend under full veterans' benefits. Information concerning veterans' programs is outlined at www.csueastbay.edu/veterans.

First-time freshmen and lower division applicants who are California resident veterans of the U.S. Armed Forces, but who do not meet regular entrance requirements may be considered for undergraduate admission if, in the university's judgment, the veteran has the potential to perform satisfactorily at the collegiate level. To be considered under this provision, veterans must have served 181 days active duty since 1955 with a discharge or separation under conditions other than dishonorable.

If an applicant wishes to be considered under this provision, the application for admission must include supporting documents, including separation papers (DD 214), and a letter petitioning special consideration. Transcripts and test scores are also required.

Dependents of Veterans

Full-time enrollment for dependents of disabled or deceased veterans (under Chapter 30, 31, 33, 34, 35, or 106) is 12 or more semester units, according to V.A. regulations. Each semester, eligible dependents should consult the Veteran Affairs Coordinator before the first day of classes and submit their forms requesting certification of enrollment for V.A. benefits.

Note: Undergraduate and graduate students who apply for benefits as dependents of disabled or deceased veterans, must be enrolled in courses that apply to a definite program (baccalaureate or master's degree and/or credential).

Also see: Military & Veterans Information & Services chapter.

Enrollment for Veterans & Reservists

Full-time enrollment for veterans or reservists (under Chapter 30, 31, 33, 34, 35, or 106) is 12 or more semester units, according to V.A. regulations. Each semester, veterans and reservists should consult the Veteran Affairs Coordinator before the first day of classes and submit their forms requesting certification of enrollment for V.A. benefits.

Note: Undergraduate and graduate students who apply for Veterans' Benefits must be enrolled in courses that apply to a definite program (baccalaureate or master's degree and/or credential).

Credit for Military Training and USAFI

Cal State East Bay grants six (6) semester units of credit toward a baccalaureate degree for a student who completed basic training and was honorably discharged from military service of the United States after serving at least one year and one day, in accordance with the recommendation of the American Council on Education. Three (3) of these units may be applied toward General Education Area E.

Note: Credit is not given for completion of the six month reserve training programs.

Commissioned officers may receive an additional six (6) semester units, which may be considered upper division elective credit. In order to receive such credit applicants must present written certification from a recognized military authority, such as papers from a military separation center (service form DD-214 or DD-295) or a Joint Services Transcript (JST). Credit for specific courses may be allowed if the student has satisfactorily completed equivalent study in a military service school. The guidelines of the American Council on Education are followed in determining eligibility.

Cal State East Bay is a Servicemember Opportunity College (SOC).

Also see: Military & Veterans Information & Services chapter.

Credit for Non-collegiate Instruction

Cal State East Bay grants undergraduate degree credit for successful completion of non-collegiate instruction, either military or civilian, appropriate to the baccalaureate degree, which has been recommended by the Commission on Educational Credit and Credentials of the American Council on Education. The numbers of units allowed are those recommended in the Guide to the Evaluation of Educational Experience in the Armed Services and the National Guide to Educational Credit for Training Programs.

Note: Lower division, occupational courses designed to train technicians are not acceptable for university credit. Credit granted for non-collegiate instruction is not generally applied to general education or major requirements.

Student Services

- AACE (Academic Advising and Career Education)
- Accessibility Services
- ASI Student Government
- Career Placement Information
- Career Preparation & Cooperative Education
- Concord Campus Student Services
- Credentialing Student Services Center
- Early Start Program
- East Bay Cares
- Educational Opportunity Program (EOP)
- Enrollment Information Center
- EXCEL Program
- International Admissions Office
- International Education & Student Exchange Programs
- Program for Accelerated College Education (PACE)
- RAW Recreation and Wellness Center
- Renaissance Scholars Program
- Safety Programs
- Student Center for Academic Achievement
- Student Health Services
- Student Life & Leadership Program
- Student Services Operation for Success
- Testing Services
- Transcript Requests
- Tutoring Services

Academic Advising and Career Education (AACE)

AACE provides a full range of excellent academic advising and career counseling services to all undergraduate students. Services include guidance and official updates on students' progress toward completing their general education and graduation requirements (other than major requirements); assistance in developing realistic educational goals and a plan to achieve those goals; explanations of academic policies and procedures; workshops throughout the year; and group advising for new students.

AACE is the academic advising home for undergraduate students who have not yet declared a major at California State East Bay. It offers academic counseling and specialized assistance in exploring, researching and selecting a major based on individual, educational, and career goals. Undeclared students who are placed on academic probation are required to see an AACE academic counselor and/or attend the workshop "Understanding Academic Probation" each semester until good standing is achieved.

In addition, AACE provides academic counseling and support services for all undergraduates who are experiencing academic difficulties such as those on academic probation or those who have been recently

disqualified. Students (non-EOP) on academic probation are encouraged to meet with an AACE counselor to discuss strategies for improving their grades and academic standing.

Accessibility Services

The Accessibility Services department provides academic accommodations and support services to students with permanent and temporary disabilities.

Accessibility Services values the diversity of the Cal State East Bay student body and works with the faculty, staff, and administration to create and maintain an inclusive environment where individuals with differing abilities have full and equal access to all University programs.

Additionally, Accessibility Services administers related student support services to address social skills, time management, academic advising, behavioral health, and career services. Please see the webpage for links to the College Link Program, Project IMPACT, and Work-Ability IV to learn more about these services.

For additional information, please visit: <http://www.csueastbay.edu/accessibility/> or email: as@csueastbay.edu. Accessibility Services' main office is located at Cal State East Bay's Hayward campus in the Library Complex - LI 2400; phone: (510) 885-3868. On the Concord Campus Accessibility Services' office is located in the Academic Services Building - Room 114; phone: (925) 602-6716.

Associated Students, Inc.

Associated Students, Inc.

Phone: (510) 885-4843

<http://www.csueastbay.edu/asi>

As a 501.3c non-profit auxiliary corporation of the CSU, the Associated Students, Inc. (ASI) is the official voice of the students of Cal State East Bay. The ASI represents and advocates on behalf of the interests, needs, and concerns of the diverse and dynamic student body, and provides students with the services and resources to supplement and support their college experience. Each Spring, elections are held to fill the Board of Directors which consists of 15 students representing all the colleges and executive offices.

Business Office

Located in Suite 314 of the Original University Union, ASI Staff work with students to fulfill their organizational needs by providing special services to recognized student clubs and organizations.

Programming

ASI Presents produces a variety of special programs and events to meet the social, cultural and entertainment needs of Cal State East Bay's community.

Career Placement Information

Academic Advising and Career Education (AACE)

The AACE office may furnish, upon request, information about the employment of students who graduate from programs or courses of study preparing students for a particular career field. Any such data provided must be in a form that does not allow for the identification of any individual student. This information includes data concerning the average starting salary and the percentage of previously enrolled students who obtained employment. The information may include data collected from either graduates of the campus or graduates of all campuses in the California State University.

Career Preparation & Cooperative Education

Academic Advising and Career Education (AACE)

In addition to academic advising and counseling, AACE provides information and employment services to assist students in transitioning from the university to graduate school or the professional workplace. These services include career advising and coaching, career exploration and assessment, occupational information, job search assistance, and employment information and referral. The office maintains a comprehensive Career Library with books, periodicals, and online resources pertaining to job search, career guidance, and labor market information.

AACE offers regularly scheduled walk-in hours for resume critiques and career-related questions. Appointments are also available for longer counseling sessions. In addition, career assessments are available in AACE to provide personal assessment and occupational information.

AACE offers workshops throughout the year, at both the Hayward and Concord campuses. Subjects include resume writing, interview techniques, finding an internship, and personal skills assessments, among other topics. Workshop and event schedules are listed on the website and the University's password-protected, on-line database for full-time, part-time, seasonal, internship, and summer jobs available to students.

Employers conduct on-campus interviews for graduating seniors and alumni in the fall and spring semesters. Participants are encouraged to attend an orientation session, either online or in the Center, before registering for interviews.

AACE hosts job fairs throughout the academic year for all undergraduates and graduates to explore career options and employment opportunities. Job fairs feature employers from local, national, and worldwide organizations. AACE also sponsors targeted recruitment events with a specific career or employment focus. All of these are also listed on PioneerJobs.

Cal State East Bay alumni and other working professionals in a variety of career fields provide CSUEB students with valuable career exploration information at "Career Panels" and other events. These offer valuable insight into their career fields and experiences.

AACE's website (www.csueastbay.edu/aace) provides information about its services, workshops and events, major and career information, job listings, resume and interviewing guidelines, and other career resources. Students can search for jobs, obtain information about occupations and career fields, participate in the On-Campus Interview program, and view the calendar of upcoming career workshops and job fairs.

Cooperative Education & Internships

The goal of the Cooperative Education program is to enrich students' educational experience by demonstrating the relevance of university study to the world of work and by providing on-the-job experience that will make interns attractive to future employers after the degree is completed.

Students have completed internships in private businesses and public and non-profit agencies, including I.R.S./C.I.D., Shaw Environmental, P.G. & E., and many more.

Normally, a co-op or intern experience should begin during the sophomore year or later. The work schedule varies depending on the needs of the employer. Some students are offered employment with their co-op employer when they graduate.

To participate in the program, students must have at least a 2.0 GPA, be in good academic standing, and be enrolled as a regular student in the University. To register in an internship course, students must meet the requirements of the Internship program in their own academic department. Internship courses are numbered 398 and 498 for undergraduate students and 698 for graduate students. If an internship course is available, it will be listed in the Class Schedule. Students must complete forms in AACE, as well as register for the course in order to receive credit.

In addition to internship courses, many departments offer regular courses in internships or field practice in which students may enroll to receive academic credit for their work.

Note: International students on F-1 visas who are interested in registering for Co-op, internship, or field practice courses should contact the Center for International Education at (510) 885-2880 to discuss employment authorization for such courses.

Concord Campus Student Services

The Concord Campus

The Concord Campus is a branch campus of Cal State East Bay located at 4700 Ygnacio Valley Road near Clayton, Walnut Creek, Pleasant Hill, Pittsburg, and Antioch. The campus is uniquely positioned to serve the educational needs of Contra Costa County residents.

The 386-acre campus includes over 300 acres of open space, community sports fields, and views of Mt. Diablo and the Sacramento River Delta. In 2017, the Concord Campus celebrated 25 years of providing public higher education to students and professionals. Many residents benefit from Cal State East Bay's presence in the heart of Contra Costa County and enjoy the small class size and intimate educational experiences the Concord Campus provides.

Services and Facilities

The Concord Campus promotes student success through a variety of services. These include academic advising on General Education (GE) and graduation requirements, as well as administrative and instructional support services. Students are referred to their departments for major advising.

Instructional support services include advanced computer laboratories, modern smart classrooms, a branch of the University's Library, student collaboration room, on-site bookstore, outdoor fitness park, student lounge, and a free shuttle service between the campus and the Concord BART station.

For assistance, or information on any of these services, call (925) 602-6700 or visit <http://www.csueastbay.edu/concord>

Credentialing Student Services Center

The Credential Student Service Center (CSSC), in the College of Education and Allied Studies, provides a one-stop center for all students inquiring about credential program application requirements, procedures and information about applying for or renewing teaching credentials. The CSSC informs and assists students in fulfilling Early Field Experience, meeting program requirements, and maintaining student records. The Credential Student Service Center is located in the Art Education Building Room 235, (510) 885-2272.

California Resident Freshmen Early Start Program

The Early Start Program serves CSU admitted freshmen who have not demonstrated proficiency in written communication and/or mathematics/quantitative reasoning as determined by systemwide placement standards. Participation in the Early Start Program is required for students needing skills development in these areas; students will be expected to enroll in a written communication course or a mathematics/quantitative reasoning course (but not both) during the summer period prior to the start of the fall term. Students required to participate in the Early Start Program may choose to enroll at any CSU campus; the earned baccalaureate credit will be transferred seamlessly to the student's destination campus.

The goals of the Early Start Program are to:

- Better prepare students in written communication and mathematics/quantitative reasoning before the start of the fall semester of the freshman year;
- Add an important and timely assessment tool in preparing students for college; and
- Improve the opportunity for students to successfully complete their college degrees.

East Bay Cares

Cal State East Bay has created a network of structures, policies and procedures for working with at-risk students (including the potentially violent student) for the purposes of providing support to the individual student and ensuring a safe campus environment. With regard to students in distress, the University has the responsibility to set the policies and programs that promote a safe campus environment and to respond to students who are at risk or are an imminent danger to self or others. Each organizational unit of the

campus involved in this effort has a specific set of functions. However, it is the interaction of the various units of the system that is crucial when encountering the complex cases involving at-risk students.

To that end, Student Affairs has launched an East Bay Cares icon located on the University phone app. The Care team coordinates support services and appropriate University responses for identified students. For more information, see: www.csueastbay.edu/care/ or the EB CARES icon.

Educational Opportunity Program (EOP) & Summer Bridge

Established in 1969, the Educational Opportunity Program (EOP) provides admission and retention support services to low-income and educationally disadvantaged California residents who demonstrate the motivation and potential to succeed in college. EOP identifies and admits students who have the potential to succeed at California State University campuses, but who have not achieved their educational goals because of economic and/or educational background. EOP provides students with the resources, tools and skills to ensure academic and personal success through a variety of academic support services. These services provided by EOP include recruitment, preadmission counseling, special admissions, a *Summer Bridge program* (for entering EOP freshmen), specialized orientation sessions, academic advisement, personal counseling, skill-enhancement workshops, career guidance, peer advising, support groups, social/cultural activities, referral services, and EOP grants for eligible students.

Summer Bridge is a transition program for a select group of newly admitted Educational Opportunity Program (EOP) freshmen students to prepare them for their first year at Cal State East Bay. This intensive college readiness program is designed to provide incoming EOP exception admit freshmen with the following academic, social, and multicultural experiences to smooth their transition from high school to the University's environment:

- Provide classes in English and Mathematics to enhance academic skills
- Acquaint students to the University and its many resources
- Provide workshops in the foundations of college success
- Make new friends
- Meet college professors
- Work with their counselors and peer advisors
- Select Fall semester classes
- Provide cultural and social activities

EOP accepts students who qualify for regular admission, as well as a limited number of students who do not meet regular admission criteria. Only low-income and educationally disadvantaged undergraduate students who need admission assistance and/or support services to succeed at Cal State East Bay are admitted to EOP. Additionally, students must be first generation college students, meet the income eligibility criteria, and either be California residents or AB 540. They must also demonstrate academic potential and motivation to succeed.

To apply for admission to the program, prospective students must complete the online *CALSTATE Apply* Application for Undergraduate Admission and check the appropriate box for EOP services. Once the Cal State East Bay application is submitted (online), EOP applicants will receive an online EOP link and have

access to complete the EOP Applicant Information Form and two EOP recommendation forms. Students must have all three documents submitted in order for their EOP application to be complete.

EOP is a high-demand program which only accepts applications for Fall term from applicants new to the CSU system. Currently enrolled and/or previously enrolled students (not formerly in an EOP CSU program) are not eligible to apply. Applicants who submit all required documents will be reviewed and if selected, will be admitted to EOP. All EOP freshmen receiving exception admission are required to attend the EOP Summer Bridge program as a condition of their admission for Fall term.

For assistance or for further information about EOP and the Summer Bridge program, please visit the EOP Office at Student and Faculty Support (SF) Building 224, or online at www.csueastbay.edu/eop. Prospective applicants can also email eopadmissions@csueastbay.edu or call (510) 885-4683 for more information.

Student Enrollment Information Center

The Hayward campus Enrollment Information Center (EIC) is located on the first floor of the Student Services and Administration Building. It provides general information related to admission, financial aid, records and registration, and graduation evaluation. The Enrollment Information Center is open Monday through Thursday from 8:30 a.m. to 5:30 p.m.; and Friday from 10:00 a.m. to 5:00 p.m. During the first five days of instruction each semester extended hours are 8:00 am to 6:00 pm except Fridays when the closing time is 5:00 pm. The Cashier's Office, also located on the 1st floor of Student Services and Administration Building next to the Student Enrollment Information Center, is open Monday from 8:30 a.m. to 6:00 p.m.; Tuesday through Thursday from 8:30 a.m. to 5:00 p.m.; and Friday from 9:30 a.m. to 4:30 p.m. Students seeking service from departments should contact those offices directly.

Academic Assistance is open 9:00 a.m. to 6:00 p.m. Monday through Thursday, and until 5:00 p.m. on Friday for questions regarding services and to schedule advising appointments. Academic advising is available for all undergraduate students regarding their non-major degree requirements. Drop-in advising is available Tuesday and Wednesday, 10:00 a.m. to 12:30 p.m., and 3:00 p.m. to 5:30 p.m. Appointments may also be scheduled in advance and, if needed, 6:00 p.m. appointments are available. Students should bring all their advising records including their most recent general education evaluation or degree audit when they come for advising. Please call (510) 885-3621 for any current changes to advising hours, or go to www.csueastbay.edu/aace.

Concord Student Services is located in the lobby of the Academic Services Building. It is open Monday through Thursday, 9:00 a.m. to 6:30 p.m.

The Concord Campus Academic Services Office provides academic advising. Please call (925) 602-6700 for more information or visit the Concord Campus website at: www.csueastbay.edu/concord/

EXCEL Program

The EXCEL Program (a TRiO Student Support Services program) is funded by the U.S. Department of Education. The program provides a variety of educational services for Cal State East Bay undergraduates who have a demonstrated academic need and who are either low-income or first-generation college or have a disability. The EXCEL Program aims to increase the retention and graduation rates of program participants and to create a supportive environment that encourages academic success.

EXCEL's Academic Life Planning Counselors assist students in developing academic plans to complete their undergraduate degrees and solve academic related problems. They also provide advising in career and goal planning, scholarship assistance, graduate school advising, guidance on balancing academic and personal life, and personal counseling.

The Learning Skills Coordinator offers help in different ways of improving students' learning skills. Assistance includes offering tutoring in basic subjects, diagnosing academic weaknesses in learning and providing tips in test-taking, taking lecture notes, and study skills. During the academic year, EXCEL offers workshops with topics ranging from study skills to graduate schools to internship/jobs to enhance students' knowledge.

To apply to the EXCEL Program or to find out more about its services, call (510) 885-3722 or visit the main office located in the Student and Faculty Support Building (SF) Suite 202. Additional information can also be found on the website at www.csueastbay.edu/excel.

International Admission Office

All matters pertaining to the admission of international students are handled by the International Admissions Office. Students from other countries should consult with the International Admissions Office regarding visas, eligibility for employment, and any special academic requirements.

The CSU must assess the academic preparation of international students. For this purpose, "international students" include those who hold U.S. temporary visas as students, exchange visitors, or in other non-immigrant classifications. Cal State East Bay uses separate requirements and application filing dates in the admission of "foreign students". Verification of English proficiency (see below), financial resources, and academic performance are each important considerations for admission.

Prospective Graduate Students

Graduate applicants must hold a degree equivalent to a four-year bachelor's degree obtained from a recognized university. Applicants must also have the equivalent of a 2.50 grade point average, or higher, in their last two years of college-level courses.

International Education & Student Exchange Programs

Center for International Education

The Center for International Education (CIE) provides a range of services to international students and scholars that are designed to facilitate their transition to a new environment and to optimize their educational opportunities while at Cal State East Bay. These services include:

1. pre-departure advising
2. orientation for new students
3. assistance in understanding and complying with University rules and regulations
4. counseling designed to help students adjust to life in the USA
5. advice on relevant immigration regulations
6. guidance for students regarding legal employment while in student status
7. referrals for on-campus support services
8. workshops on topics of special interest to international students.

Study Abroad Programs

The study abroad opportunities offered through California State University, East Bay allow Cal State East Bay students to study overseas for one semester or academic year and earn academic credit towards their degree. The experience leads to personal growth and acquisition of valuable skills, such as language fluency and cross-cultural understanding. Financial aid (except Work-Study) may apply, and study abroad scholarships are available.

CSU International Programs: Students can study abroad for a full academic year through the CSU system.

Bilateral Programs: Bilateral exchange programs are one-to-one exchanges with another university overseas. Program length varies from one semester to a full academic year.

International Student Exchange Program (ISEP): Through ISEP, students have the opportunity to study in over 120 study sites around the world for a semester or a full academic year.

Summer London Program: The British Documentary Experience is a study abroad program designed to give Communication major, as well as, non-major undergraduate students a practical and powerful educational opportunity to study the history and practice of documentary filmmaking in the United Kingdom.

National Student Exchange Program

Cal State East Bay students can study at another university in the United States or Canada through the National Student Exchange Program (NSE). NSE offers study opportunities in diverse university settings and provides access to a wide array of courses and programs. Students may use financial aid. Coursework applies to their degree.

For additional information on the Center for International Education's services or the programs listed above contact:

Center for International Education

LI 2550

Tel: (510) 885-2880; Fax: (510) 885-2787

Email: cie@csueastbay.edu

Web: www.csueastbay.edu/CIE

Program for Accelerated College Education (PACE)

Program for Accelerated College Education (PACE) is an innovative program which enables working adult students to make accelerated progress toward a Bachelor of Arts degree with a major in either Human Development and Women's Studies or Liberal Studies. PACE classes are the same as those taken by students pursuing their degrees through the traditional university format. The only difference is the carefully structured course sequence which includes only courses in the evening, weekend and/or online, as well as the dedicated academic advising for PACE students. More detailed information is available at www.csueastbay.edu/pace.

The PACE program is available at both the Hayward and Concord campuses.

Recreation and Wellness Center (RAW)

The Recreation and Wellness Center (RAW) offers comprehensive programs and services centered on promoting healthy lifestyle choices through dynamic and inclusive best-practice approaches.

Memberships are available to students, staff, faculty, alumni, and community members. Members obtain access to the 54,000 square foot facility which includes a 2-story fitness center, equipment rental counter, locker rooms with showers, the wellness center, a relaxation room, and a 2-court gymnasium with an indoor track. Services include fitness classes, personal training, intramural sports leagues, and open recreation hours. Designed to LEED (Leadership in Energy and Environmental Design) Gold standards, the RAW's facility design was recognized with a Facility of Merit Award from Athletic Business in 2011.

Within the RAW, wellness programs are offered to provide students with holistic approaches that integrate physical, psychological, emotional and social aspects of a student's health experience. Interactive workshops focus upon nutrition, fitness, sexual health, alcohol, other drugs, and self-care topics. Massage therapy is also available for currently registered students.

The RAW offers students internships and student assistant work positions to gain experience, student leadership, and professional development.

For more information about RAW facilities, programs, or services visit <http://www.csueastbay.edu/raw> or call (510) 885-4749 for more information.

Renaissance Scholars Program

Jointly funded by the University, private foundations, non-profit organizations, and individual donations, the Renaissance Scholars Program provides a variety of educational and support services for current or former foster youth attending Cal State East Bay. The major goals of the program are to enhance the retention and graduation rates of program participants and to create a supportive environment that encourages academic success.

Renaissance Scholars assists students in developing life and leadership skills while providing a wide variety of services including academic, career, and psychological counseling, scholarship opportunities, emergency assistance, priority registration, priority placement in on-campus housing, recognition events, workshops, and field trips.

To qualify for Renaissance Scholars, a student must meet the following criteria:

- Be a current or former foster youth attending Cal State East Bay between the ages of 17-23
- Qualify for "Independent Student Status" under federal financial aid guidelines
- Be a California resident
- Be a graduating high school senior or incoming community college transfer student
- Have a minimum high school GPA of 2.0
- Transfer students must have earned a 2.0 GPA in all transferable coursework
- Demonstrate high motivation and potential

To find out more about the Renaissance Scholars Program browse the website at www.csueastbay.edu/renaissance, email us at renaissance@csueastbay.edu, call (510) 885-4426, or visit the office in the Student and Faculty Support (SF) building, suite 202.

Safety Programs

Cal State East Bay enjoys low crime statistics due to an on-campus, professionally trained police department which delivers public safety services to the campus community. The University Police Department programs such as the Bicycle Patrol and Escort Service provide Cal State East Bay with a community-oriented form of police services, which allows for personal interaction between police personnel and members of the university community while providing an increased level of crime prevention patrol on campus grounds.

The University Police Department offers several on-going programs available to staff, faculty, and students on the following topics:

- alcohol,
- drug awareness,
- acquaintance rape and awareness,
- self-protection for women.

The Department also distributes a wide variety of crime prevention materials, as well as, offering vehicle lockout, battery failure, fingerprinting, and lost and found assistance.

The following information may be obtained from the University Police Department, (510) 885-3791:

- Information concerning Cal State East Bay policies, procedures, and facilities for students and others to report criminal actions or other emergencies occurring on campus.
- Information concerning Cal State East Bay's annual campus security report and annual fire safety report. This information is also available on the CSUEB website at Campus Security Report.
- Information concerning the prevention of drug and alcohol abuse.

Student Center for Academic Achievement

The Student Center for Academic Achievement (SCAA) provides tutoring and academic support services that are as diverse as Cal State East Bay's students - from peer tutoring, to group supplemental instruction

sessions, to online assistance and tutoring. Its FREE services are available to fully matriculated CSUEB students. SCAA programs include:

- Peer Tutoring:
 - One-on-one assistance in Math, Writing, Statistics, Physics, Chemistry, Biology, and Computer Science with a trained peer tutor. The tutor's role is to not do the work for students, but to guide them in the process of learning the concepts in their courses.
- Online Writing Lab:
 - The SCAA Online Writing Lab (OWL) allows CSUEB students to submit papers online and receive writing tutor feedback via email. The SCAA OWL makes every effort to return papers within 72 hours after submission.
- eTutoring:
 - If student need assistance in subjects currently not tutored at the SCAA or cannot come to the SCAA during its regular operating hours, they can log in to the eTutoring platform on the SCAA website to get near-24/7 assistance in courses such as Accounting, Spanish, and Biology. Click here to access eTutoring.
- Writing Associates Program:
 - Trained student tutors are paired with an undergraduate course for one semester to assist students in writing assignments that engage undergraduate students in the entire writing process, including feedback and revision.
- Supplemental Instruction:
 - Provides peer-assisted, collaborate, and active study sessions that improve understanding of subject content, fosters critical thinking, and encourages life-long learning to classes that are considered "at risk" (i.e. large lecture classes). These student sessions are typically led by a student who did well in the course.
- WST Prep Programs:
 - The SCAA offers one-time in-person workshops, an online workshop, and an intensive, invite-only WST Boot Camp.

Cal State East Bay students are encouraged to use the Center regularly to improve their academic performance no matter what their skill level or class standing. Students are also encouraged to attend events sponsored by the Center, such as our semester late-night extended hours tutoring event and contests.

The Student Center for Academic Achievement is located in the Upper Mall of the Library. Call (510) 885-3674 or visit its website for information regarding hours, specific tutoring times, workshop dates, event information, or to schedule a one-time appointment.

Student Health and Counseling Services

Student Health and Counseling Services (SHCS) provides quality health care by board certified, licensed, and credentialed health care providers and counselors to current, regularly enrolled Cal State East Bay students. SHCS' goal is to assist students in achieving and maintaining optimal health while pursuing their academic and career goals.

Student Health and Counseling Services hours of operations are Monday through Wednesday and Friday from 8:30 a.m. to 5:00 p.m., Thursdays from 10:00 a.m. to 5:00 p.m. Hours may vary during Summer term and semester breaks. Students can be seen on an appointment basis. Same day appointments are available for urgent needs. Limited services are also offered during semester breaks. Medical and counseling services are also available at the Concord Campus. After hours and weekend mental health phone crisis counseling is available by calling (510) 885-3735, and choosing option "2". For more information, please call (510) 885-3735 or visit www.csueastbay.edu/shcs.

Funded by student health fees, SHCS provides an extensive array of outpatient health and mental health care services at no or low cost to students. General medical visits with board-certified, licensed medical doctors, nurse practitioners, nurses, and medical assistants for the care, evaluation, and treatment of acute illnesses and injuries, health education, and family planning are available. SHCS also provides confidential individual, couples, and group counseling. All counselors are licensed or pre-licensed professionals.

Services offered at SHCS include:

General Health Services:		Reproductive Health Services*:
Health Education	Personal Counseling	Birth Control
Hearing Tests	Pharmacy*	HIV Testing
Immunizations*	Physical Exams	STI Testing & Treatment
Laboratory*	Physical Therapy	
Massage Therapy*	Psychiatry	
Orthopedics	Radiology (x-ray)*	
* Fees may apply		

To provide the holistic experience of college health, the Wellness Center also offers a Relaxation Room and a Wellness Room with health education activities and information. The Wellness Center is located in the Recreation and Wellness (RAW) Building. For more information visit www.csueastbay.edu/raw.

Confidentiality

All medical and counseling information is confidential by law and will not be released without the student's written consent.

Accreditation

SHCS is accredited by the Accreditation Association for Ambulatory Health Care, Inc. The SHCS facility and services meet the national standards for providing the highest quality of health care available.

Peer Advocates for Wellness (PAW)

PAW is an opportunity for CSUEB students to become involved with SHCS. Under the supervision of Health & Wellness Services, PAW interns are trained peer health educators who provide resource information, peer support, and outreach about health and wellness issues. For more information, email: paw.csueb@gmail.com.

Student Health Advisory Committee (SHAC)

SHAC advocates for the health needs of students and advises the SHCS Director and University President on programs, scope of services, and hours of operation for SHCS. For more information, email: shac.csueb@gmail.com.

Insurance

Students are strongly encouraged to carry outside coverage for after-hours care, emergency situations, or when referrals to outside providers are needed. For more information about insurance options, visit: www.coveredca.com, www.csuhealthlink.com, or email: csuebhealthinsurance@csueastbay.edu.

Student Life & Leadership Program

Student Life and Leadership Programs provides opportunities for student learning beyond the classroom and enhances the mission of the university through the coordination and support of a variety of special programs that promote campus life, leadership and community engagement. Special programs include orientation for new students and families; the recognition and development of student clubs and organizations; leadership conferences, seminars and workshops; and campus wide programs and events.

More than 120 student clubs and organizations are active at Cal State East Bay. They encompass a broad range of interests, including academic, cultural, recreational, religious, special interest and Greek organizations (fraternities and sororities). These groups also offer important opportunities for personal growth and development, as well as valuable educational experiences beyond the traditional classroom setting. Student clubs and organizations sponsor many special events, including lectures, films, music, cultural programs, and social activities each quarter.

The Student Life and Leadership Programs staff provides support and consultation to student clubs and organizations in planning programs and events; fund raising, publicity and promotion; and developing service projects and cultural programs. The staff also assists students interested in forming new student organizations or participating in leadership development programs.

Fraternities and sororities actively contribute to campus life at Cal State East Bay. The Greek system includes five social sororities, six social fraternities, five cultural fraternities, six cultural sororities, two co-ed academic fraternities, and one co-ed community service fraternity. In addition to offering

networking and social activities, fraternities and sororities encourage scholarship, leadership, community service, and affiliations that last a lifetime. Student Life and Leadership Programs provides support and assistance to individual chapters, as well as to the Greek governing councils.

Student Life and Leadership Programs offer students the opportunity to enhance their leadership skills through a variety of seminars, classes and conferences presented by campus and community leaders. Through these leadership programs, students gain the insight and skill to assume a leadership role on campus, in their career or in the community; build alliances with faculty, staff, alumni and community leaders; and enhance their future leadership potential. Various leadership programs, depending on the student's class level and interest, are offered fall, winter, and spring quarters and are open to all Cal State East Bay students

Getting involved in student clubs and organizations is an excellent way to meet other students, connect and engage with the campus community, develop leadership skills, pursue special interests, and persist to graduation. The University encourages students, faculty and staff to become active and involved in student clubs and organizations. More information is available from Student Life and Leadership Programs located in the New University Union, Room 2011, (510) 885-3657; email: studentlife@csueastbay.edu; website: <http://www.csueastbay.edu/students/campus-life/student-life/slife/index.html>.

Leadership Development Programs

Student Life and Leadership Programs and the Division of Student Affairs offer students the opportunity to enhance their leadership skills through a variety of seminars, classes and conferences presented by campus and community leaders. Through these leadership programs, students gain the insight and skill to assume a leadership role on campus, in their career or in the community; build alliances with faculty, staff, alumni and community leaders; and enhance their future leadership potential.

Various leadership programs, depending on the student's class level and interest, are offered fall and spring semesters and are open to all Cal State East Bay students. For additional information, contact Student Life and Leadership Programs in the University Union, Room 2011, (510) 885-3657; email: studentlife@csueastbay.edu; website: <http://www.csueastbay.edu/slife>.

Student Services Operation for Success

The Student Service Operation for Success (SSOS) is funded by the U.S. Department of Education. The SSOS program began in late 2011 and provides a full range of academic support services, counseling and cultural activities directed at historically underserved Asian American and Pacific Islander students. California State University East Bay is designated as an Asian American Native American Pacific Islander Serving Institution (AANAPISI). SSOS promotes academic success for Asian American and Pacific Islander students in college and helps students be career ready when they graduate. The program's services include: Peer Mentorship, Academic Tutoring, Student Club Sponsorship, Leadership Class, Asian and Pacific Islander themed campus events, Academic Lecture Series, Financial Aid Workshops, Career Readiness Workshops, SSOS Workshops and more.

To apply to the SSOS Program or to find out more about its services, email us at: ssos@csueastbay.edu, call (510) 885-SSOS (7767), or visit their office at SF 202. Additional information can also be found on the website at: <http://www.csueastbay.edu/apass/>

Testing Services

The Testing Office provides a wide variety of services and assistance to students, faculty, staff and the community.

Students should be aware of CSUEB's test requirements. They are:

- The University Writing Skills Requirement (UWSR). One way to satisfy the UWSR is the Writing Skills Test (WST). The WST must be taken by all undergraduate students at the beginning of the junior year, and by all graduate students upon admission to a program unless they elect to meet the requirement through coursework.
- The American Institutions Requirement in U.S. History, the U.S. Constitution, and California State and Local Government may be met by coursework or tests.

Additional information is available on the Testing Office website.

Other tests administered by the Testing Office:

The ACT (American College Test) and the SAT (Scholastic Aptitude Test), one of which is required for entering freshmen. For more information see the Application & Admissions chapter.

The MAT (Miller Analogies Test) is required by some graduate programs.

The CLEP (College Level Examination Program) was created by the College Board to allow students to demonstrate college-level achievement through a series of exams in undergraduate college courses.

The TEAS (Test of Essential Academic Skills) is required for entering in Nursing Program.

The Math Proficiency Assessment (ALEKS PPL) for students who wish to demonstrate proficiency in College Algebra and/or Pre-calculus in order to fulfill pre-requisite requirements for Math 120, 130 or 180.

Additional tests available on the Testing Office website.

ACT - American College Testing Program

CBEST - California Basic Educational Skills Test

CLAD/BCLAD - Bilingual/Cross cultural Language and Academic Development

CLEP - College Level Examination Program

CSET - California Subject Examinations for Teachers

GMAT - Graduate Management Admission Test

GRE - Graduate Record Examinations

IELTS - International English Language Testing System

LSAT - Law School Admission Test

MAT - Miller Analogies Test

MCAT - Medical College Admission Test

PRAXIS - Praxis Test

RICA - Reading Instruction Competence Assessment

SAT - Scholastic Aptitude Tests

SSAT - California Single Subject Assessments for Teachers

TEAS - Test of Essential Academic Skills

TOEFL - Test of English as a Foreign Language

Transcript Requests

Students may obtain official transcripts of coursework taken at Cal State East Bay (including continuing education and special session courses) from the Office of the Registrar. Refer to the transcripts section on the University website for current ordering procedures, forms and costs. Transcript Request forms that are mailed must also include a check (*payable to Cal State East Bay*) for the current fee. **Please do not send cash with mailed requests.**

Students with financial and judicial holds placed by the University, or with academic, document, library, equipment, or other obligations to Cal State East Bay, are not permitted to receive transcripts or to request transcripts to be sent to other institutions.

Tutoring Services

Free tutoring services are available at the Hayward Campus:

- *Student Center for Academic Achievement* - A staff of more than 30 peer tutors connects with students on their level. Workshops include writing test preparation, grammar review, graduate writing, APA documentation and academic success strategies.
- *EXCEL* - EXCEL students are eligible for one-on-one weekly tutoring in selected courses in Business, Biology, Chemistry, Computer Science, Math, Statistics, Philosophy, Physics, and Writing. WST Preparation and Computer Skills are only provided in a group tutoring format.
- *Project IMPACT*- Project IMPACT offers eligible students with disabilities individualized services such as tutoring and advising.

See each program in this chapter for additional information.

Student Rights, Responsibilities & Conduct

- About Academic Freedoms
- Academic Dishonesty
- Confidentiality & Sexual Misconduct, Dating Violence, Domestic Violence & Stalking
- Consequences of Committing Acts of Sexual Violence
- Course Syllabi
- Data Integrity
- Evidence of Academic Dishonesty
- Faculty Office Hours
- Federal Copyright Laws
- Final Exams
- Freedom of Association
- Fundamental Freedoms, Rights, and Responsibilities
- Inquiry and Expression
- Nondiscrimination Policies
- Off-campus Freedom of Students
- Participation in Institutional Government
- Reporting to University Police or University Employees
- Resolution of Disputes and Grade Appeal
- Safety of the Campus Community
- Student Complaint Procedure
- Student Conduct
- Student Publications
- Students Records
- Use of Alcohol and Other Drugs
- Whistleblower Protection
- Whom to Contact if You Have Complaints, Questions or Concerns

About Academic Freedoms

California State University, East Bay exists for the transmission of knowledge, the pursuit of truth, the development of students, and the general well-being of society. Free inquiry and free expression are indispensable to the attainment of these goals. As members of the academic community, students are encouraged and expected to develop the capacity for critical judgment, to accept appropriate responsibilities, and to engage in rational debate utilizing critical thinking in a sustained and independent search for truth.

Freedom to teach and freedom to learn are inseparable components of academic freedom. The freedom to learn depends largely upon appropriate opportunities and conditions in the classroom, on the campuses and in the larger community. The responsibility to secure and to respect general conditions conducive to the freedom to teach and learn is shared by all members of the academic community.

Fundamental Freedoms, Rights, and Responsibilities

A basic component of the University mission statement is the value of diversity in background, interests, experiences, beliefs, and cultures. Faculty, staff, and students represent a variety of interests. Students come to campus with unique experiences, and, while on campus and as a result of their interaction in the formal classroom and co-curricular programs and activities, they continue to develop and expand their knowledge and pursuits.

In the Classroom

The institution maintains minimum standards in order to preserve the following fundamental freedoms for students:

- Freedom to teach and freedom to learn are inseparable components of academic freedom.
- Student academic freedom is incorporated into the classroom setting where learning is concentrated and structured.
- Faculty and students share responsibility for student academic freedom in the classroom.

The following minimum standards enhance student academic freedom in the classroom.

Freedom of Expression

- Students are free to take reasonable exception to the data or views offered in any course of study and to reserve judgment about matters of opinion. Students are responsible for learning the content of any course of study for which they are enrolled.
- Protection Against Improper Academic Evaluation
- Students are responsible for maintaining standards of academic performance established for each course in which they are enrolled. Orderly procedures protect students from prejudice or capricious academic evaluation.

Protection Against Improper Disclosure

- Policies and practices protect students from improper disclosure of information about the students' views, beliefs, and political activities which professors acquire in the course of their work as instructors, advisers, and counselors and such information shall be considered confidential. Judgments of academic ability and character may be provided under appropriate circumstances, normally with the knowledge or consent of the student.

The Grade Appeal and Academic Grievance Committee

Academic Programs and Services, located in *Student Services and Administration* building (SA 4500) operates under the supervision of the Academic Senate and exists to resolve grade disputes and other academic grievances. Reports of discrimination will be handled by Risk Management and Internal Control located in *Student Services and Administration* (SA 1600), and can be contact at: (510) 885-4918; TTY (510) 885-7592.

Access and Retention

In all aspects of access to programs and services provided or sponsored by the institution, students have a right to be free from discrimination on the basis of individual attributes, including, but not limited to race, color, gender, age, disability, national origin, or sexual orientation. Admission to the university is limited by standards which are promulgated by the California legislature and the CSU Board of Trustees. Realities of the campus budget and facilities may impose additional constraints.

Beyond academic, fiscal, and physical limits to admission to the University, prospective and enrolled students have a right to unobstructed access to campus programs and services. In special cases, and with the CSU Chancellor's concurrence, selected degree programs may be given "impacted" status, which adds certain stipulations and/or restriction on access to those majors.

Students have a right to be informed about the institution's policies for access and retention in order to take responsibility for making appropriate choices and to participate effectively in campus programs and services. Issues regarding freedom of access should be referred to the supervisor(s) of the appropriate program or service first. If the matter is not resolved satisfactorily, the student has the right to refer the issue through administrative channels to the Vice Presidents, or to Academic Affairs.

Reports of student misconduct including those relating to academic dishonesty will be handled by the Office of Student Conduct, Rights and Responsibilities located in the *Student Services and Administration* building (1st Floor), and can be reached at: (510) 885-3763.

Off-Campus Freedom of Students

The University has the responsibility to protect students' citizenship rights on campus, and with regard to approved activities which occur off campus. Off-campus activities of students may, upon occasion, result in violation of the law. Students who violate the law may incur penalties prescribed by civil authorities, but institutional authority will not be used merely to duplicate the functions of general laws. As stated in the University's Policy on Time, Place and Manner of Free Expression, "Universities are venues for creative, thoughtful and respectful discourse where conflicting perspectives are vigorously debated and thoroughly discussed."

Freedom of Association

Students are free to organize and join associations to promote their common interests and to have these associations be considered for recognition by the University. "Institutional recognition" is understood to refer to the formal relationship between the student organization and the institution. Recognized student organizations are responsible for abiding by all institutional regulations for student organizations. These regulations are available in the Office of Student Life and Leadership Programs (New University Union, Room 2011).

Freedom of Inquiry and Expression

Students and student organizations are free to examine and discuss all questions of interest to them and to express opinions publicly and privately as long as others' rights are not violated in the process. Students are always free to support causes by orderly means that do not disrupt the regular and essential operation

of the institution. However, such public expressions or demonstrations speak only for the student(s) involved, and not for the institution.

Course Requirement Information - Course Syllabus

Faculty shall provide students with a course syllabus, which should be placed on the course Blackboard site at the beginning of the semester, containing the following information:

- Name of instructor, office location, office hours, office telephone number, and @csueastbay.edu e-mail;
- Course number and title, classroom location, number of units, prerequisites (if any), a course description, objectives and student learning outcomes;
- Required texts and any other required and/or recommended materials;
- Student-supplied equipment and materials necessary for course activities;
- Course specific requirements and their due dates, such as examinations, quizzes, papers, field trips, and labs;
- Grading policy, which includes the relative weight of examinations, quizzes, papers, class participation, and other factors, and the grading scale;
- Attendance and make-up work policies and implications for grading;
- The following statement and reference to University policies regarding cheating and academic dishonesty: **"By enrolling in this class the student agrees to uphold the standards of academic integrity described at: <http://www.csueastbay.edu/academic/academic-policies/academic-dishonesty.html>."**
- Accommodations for students with disabilities.
 - Sample statement: **"If you have a documented disability and wish to discuss academic accommodations, or if you would need assistance in the event of an emergency evacuation, please contact me as soon as possible. Students with disabilities needing accommodation should speak with the Accessibility Services."**
- Emergency information.
 - Sample statement: **"California State University, East Bay is committed to being a safe and caring community. Your appropriate response in the event of an emergency can help save lives. Information on what to do in an emergency situation (earthquake, electrical outage, fire, extreme heat, severe storm, hazardous materials, terrorist attack) may be found at: <http://www.csueastbay.edu/af/departments/risk-management/ehs/emergency-management/index.html>. Please be familiar with these procedures. Information on this page is updated as required. Please review the information on a regular basis."**

Faculty are also encouraged to include additional items such as:

- Course outline;
- Types of quizzes and exams (e.g., true-false, multiple choice, short-answer, essay);
- Availability of appropriate tutoring services;
- Policies regarding audio and video recording and use of electronic devices;
- Reference to University classroom behavior policies;
- Classroom food and drink policies.

Furthermore, faculty should advise students of their expectations in the course no later than the end of the second class. Any changes in course requirements should be communicated to students in a timely

manner. It is the student's responsibility to read the course statement and to request any clarification of course policies. If a student adds the course after the first week of class, they must seek course information in a timely manner.

Final Examination Policy

The student can expect the instructors to provide comprehensive course requirement information for each course at the beginning of the semester. This will include the work that is expected of the student and the basis on which the student will be evaluated. Most courses have graded assignments throughout the semester and a final examination or paper. The University's policy states that final examinations must be given only at the times published in the schedule of classes on *MyCSUEB*. The purpose of this policy is to ensure fairness for all students. Exceptions are, therefore, rare and must be approved in writing by the department chair. A student should contact the department chair or college dean if they believe this policy is not being followed. If the student is in a course which has a separate laboratory, activity or discussion section, the instructor is permitted to give a separate final examination (but only for that section) during the last regularly scheduled meeting of the section.

Faculty Office Hours Policy

The faculty of the University are available during regularly scheduled office hours, which are at times other than scheduled classes. The times of the office hours are posted outside each faculty office, at the faculty member's department, on the department website, and on the faculty member's course syllabi. The faculty member informs the department of their office hours the first day of classes each semester. *Note: There is a proposal to amend the following policy regarding office hours. If approved by the University President, the policy may differ from the one below.*

Full-time faculty members maintain a minimum of three (3) office hours per week and also make provision for meeting with students by appointment at a mutually convenient time beyond the stated office hours. The full-time faculty member's office hours shall be held over at least two days and at least in half-hour blocks. Part-time faculty will maintain the equivalent of one (1) office hour per week for each four WTUs of their teaching load with a minimum of one hour and a maximum of three hours per week.

Faculty teaching online must also hold office hours and may make alternative arrangements with the Department Chair to be available online or by telephone. Online faculty's office hours must include at least one (1) hour of availability by telephone per week.

If for any reason a faculty member cannot meet the posted office hours, the faculty member will inform the Department Chair. If possible, the department will note the absence on the faculty office door.

Note: Normal office hours are to be maintained during the Final Examination period. If a final examination conflicts with a posted office hour, an alternative hour is to be posted for that week alone.

Privacy Rights of Students in Education Records

The federal Family Educational Rights and Privacy Act of 1974 (20 U.S.C. 1232g) and regulations adopted thereunder (34 C.F.R. 99) set out requirements designed to protect students' privacy in their records maintained by the campus. The statute and regulations govern access to certain student records maintained by the campus and the release of such records. The law provides that the campus must give students access to most records directly related to the student and must also provide opportunity for a hearing to challenge the records if the student claims they are inaccurate, misleading, or otherwise inappropriate. The right to a hearing under this law does not include any right to challenge the appropriateness of a grade determined by the instructor. The law generally requires the institution to receive a student's written consent before releasing personally identifiable data about the student. The institution has adopted a set of policies and procedures governing implementation of the statute and the regulations. Copies of these policies and procedures may be obtained at (designate location on campus). Among the types of information included in the campus statement of policies and procedures are:

- (1) the types of student records maintained and the information they contain;
- (2) the official responsible for maintaining each type of record;
- (3) the location of access lists indicating persons requesting or receiving information from the record;
- (4) policies for reviewing and expunging records;
- (5) student access rights to their records;
- (6) the procedures for challenging the content of student records;
- (7) the cost to be charged for reproducing copies of records; and
- (8) the right of the student to file a complaint with the Department of Education.

The Department of Education has established an office and review board to investigate complaints and adjudicate violations. The designated office is: Family Policy Compliance Office, U.S. Department of Education, 400 Maryland Avenue, SW, Washington, D.C. 20202-5920.

The campus is authorized under the Act to release "directory information" concerning students. "Directory information" may include the student's name, address, telephone listing, electronic mail address, photograph, date and place of birth, major field of study, participation in officially recognized activities and sports, weight and height of members of athletic teams, dates of attendance, grade level, enrollment status, degrees, honors, and awards received, and the most recent previous educational agency or institution attended by the student. The above-designated information is subject to release by the campus at any time unless the campus has received prior written objection from the student specifying what information the student requests not be released. Written objections should be sent to the Office of the Registrar.

The campus is authorized to provide access to student records to campus officials and employees who have legitimate educational interests in such access. These persons have responsibilities in the campus's academic, administrative or service functions and have reason for accessing student records associated with their campus or other related academic responsibilities. Student records will be disclosed to the Chancellor's Office of the CSU in order to conduct research, to analyze trends, or to provide other administrative services on behalf of the CSU. Student records may also be disclosed to other persons or organizations under certain conditions (e.g., as part of the accreditation or program evaluation; in response to a court order or subpoena; in connection with financial aid; or to other institutions to which the student is transferring).

CSU Nondiscrimination Policies & Complaint Procedures

Protected Status: Genetic Information, Marital Status, Medical Condition, Nationality, Race or Ethnicity (including color or ancestry), Religion or Religious Creed, and Veteran or Military Status.

The California State University (CSU) does not discriminate on the basis of age, genetic information, marital status, medical condition, nationality, race or ethnicity (including color and ancestry), religion (or religious creed), and veteran or military status - as these terms are defined in CSU policy - in its programs and activities, including admission and access. Federal and state laws, including Title VI of the Civil Rights Act of 1964 and the California Equity in Higher Education Act, prohibit such discrimination. The Discrimination, Harassment & Retaliation Administrator of Risk Management & Internal Control has been designated to coordinate the efforts to comply with all applicable federal and state laws prohibiting discrimination on these bases.

Inquiries concerning compliance may be presented to:

Discrimination Harassment & Retaliation Administrator

Cal State East Bay, Risk Management and Internal Control

25800 Carlos Bee Blvd., (SA) suite 1600

Hayward, CA 94542

(510) 885-4326 (V), (510) 885-7592 (TTY), (510) 885-4690 (Fx)

CSU Executive Order 1097, revised October 5, 2016 (<http://www.calstate.edu/EO/EO-1097-rev-10-5-16.pdf>) (or any successor executive order) is the systemwide procedure for all complaints of discrimination, harassment or retaliation *made by students* against the CSU, a CSU employee, other CSU students or a third party.

Protected Status: Disability

The California State University (CSU) does not discriminate on the basis of disability (physical and mental) - as this term is defined in CSU policy - in its programs and activities, including admission and access. Federal and state laws, including sections 504 and 508 of the Rehabilitation Act of 1973 and the Americans with Disabilities Act of 1990, prohibit such discrimination.

The Director of Accessibility Services (more information found here: <http://www.csueastbay.edu/accessibility/>) has been designated to coordinate the efforts of Cal State East Bay to comply with all applicable federal and state laws prohibiting discrimination on the basis of disability.

Inquiries concerning compliance may be presented to:

Discrimination Harassment & Retaliation Administrator

Cal State East Bay, Risk Management and Internal Control

25800 Carlos Bee Blvd., (SA) suite 1600

Hayward, CA 94542

(510) 885-4326 (V), (510) 885-7592 (TTY), (510) 885-4690 (Fx)

CSU Executive Order 1097 (<http://www.calstate.edu/EO/EO-1097-rev-10-5-16.pdf>) (or any successor executive order) is the systemwide procedure for all complaints of discrimination, harassment or retaliation made by students against the CSU, a CSU employee, other CSU students or a third party.

Protected Status: Gender (or sex), Gender Identity (including transgender), Gender Expression and Sexual Orientation

The California State University (CSU) does not discriminate on the basis of gender (or sex), gender identity (including transgender), gender expression or sexual orientation - as these terms are defined in CSU policy - in its programs and activities, including admission and access. Federal and state laws, including Title IX of the Education Amendments of 1972, prohibit such discrimination.

Risk Management and Internal Control has been designated to coordinate the efforts of Cal State East Bay to comply with all applicable federal and state laws prohibiting discrimination on these bases.

Inquiries concerning compliance may be presented to:

Discrimination Harassment & Retaliation Administrator

Cal State East Bay, Risk Management and Internal Control

25800 Carlos Bee Blvd., (SA) suite 1600

Hayward, CA 94542

(510) 885-4326 (V), (510) 885-7592 (TTY), (510) 885-4690 (Fx)

The California State University is committed to providing equal opportunities to all CSU students in all campus programs, including intercollegiate athletics. CSU Executive Order 1097 Revised October 5, 2016 (www.calstate.edu/EO/EO-1097-rev-10-5-16.pdf) (or any successor executive order) is the systemwide procedure for all complaints of discrimination, harassment or retaliation made by students against the CSU, a CSU employee, other CSU students or a third party.

Title IX

Title IX of the Education Amendments of 1972 protects all people regardless of their gender, gender identity, gender expression or sexual orientation from gender discrimination, which includes sexual harassment and violence:

Sex Discrimination means an adverse action taken against a student by the CSU, a CSU employee, or another student because of gender or sex (including sexual harassment, sexual misconduct, domestic violence, dating violence and stalking) that is perpetrated against an individual on a basis

prohibited by Title IX of the Education Amendments of 1972, 20 U.S.C. §1681 et seq., and its implementing regulations, 34C.F.R. Part 106 (Title IX); California Education Code §66250 et seq., and/or California Government Code §11135.

Sexual Harassment, a form of sex discrimination, is unwelcome verbal, nonverbal or physical conduct of a sexual nature that includes, but is not limited to, sexual advances, requests for sexual favors, and any other conduct of a sexual nature where:

1. Submission to, or rejection of, the conduct is explicitly or implicitly used as the basis for any decision affecting a complainant's status or progress, or access to benefits and services, honors, programs, or activities available at or through the university; or
2. The conduct is sufficiently severe, persistent or pervasive that its effect, whether or not intended, could be considered by a reasonable person in the shoes of the complainant, and is in fact considered by the complainant, as limiting his or her ability to participate in or benefit from the services, activities or opportunities offered by the university; or
3. The conduct is sufficiently severe, persistent or pervasive that its effect, whether or not intended, could be considered by a reasonable person in the shoes of the complainant, and is in fact considered by the complainant, as creating an intimidating, hostile or offensive environment.

Sexual harassment could include being forced to engage in unwanted sexual contact as a condition of membership in a student organization; being subjected to video exploitation or a campaign of sexually explicit graffiti; or frequently being exposed to unwanted images of a sexual nature in a classroom that are unrelated to the coursework.

Sexual harassment also includes acts of verbal, non-verbal or physical aggression, intimidation or hostility based on gender or sex-stereotyping, even if those acts do not involve conduct of a sexual nature.

Executive Order 1097 covers unwelcome conduct of a sexual nature. While romantic, sexual, intimate, personal or social relationships between members of the university community may begin as consensual, they may evolve into situations that lead to sexual harassment or sexual misconduct, including dating or domestic violence, or stalking, subject to this policy.

Claiming that the conduct was not motivated by sexual desire is not a defense to a complaint of harassment based on gender.

Sexual Misconduct

All sexual activity between members of the university community must be based on affirmative consent. Engaging in any sexual activity without first obtaining affirmative consent to the specific activity is sexual misconduct, whether or not the conduct violates any civil or criminal law. Sexual activity includes, but is not limited to, kissing, touching intimate body parts, fondling, intercourse, penetration of any body part, and oral sex. It also includes any unwelcome physical acts, such as unwelcome sexual touching, sexual assault, sexual battery, rape, and dating violence. When based on gender, domestic violence or stalking also constitute sexual misconduct. Sexual misconduct may include using physical force, violence, threat or intimidation, ignoring the objections of the

other person, causing the other person's intoxication or incapacitation through the use of drugs or alcohol, or taking advantage of the other person's incapacitation (including voluntary intoxication) to engage in sexual activity. Men as well as women can be victims of these forms of sexual misconduct. Sexual activity with a minor is never consensual when the complainant is under 18 years old, because the minor is considered incapable of giving legal consent due to age.

Sexual Assault is a form of sexual misconduct and is an attempt, coupled with the ability, to commit a violent injury on the person of another because of that person's gender or sex.

Sexual Battery is a form of sexual misconduct and is any willful and unlawful use of force or violence upon the person of another because of that person's gender or sex as well as touching an intimate part of another person against that person's will and for the purpose of sexual arousal, gratification or abuse.

Rape is a form of sexual misconduct and is non-consensual sexual intercourse that may also involve the use of threat of force, violence, or immediate and unlawful bodily injury or threats of future retaliation and duress. Any sexual penetration, however slight, is sufficient to constitute rape. Sexual acts including intercourse are considered non-consensual when a person is incapable of giving consent because s/he is incapacitated from alcohol and/or drugs, is under 18 years old, or if a mental disorder or developmental or physical disability renders the person incapable of giving consent. The respondent's relationship to the person (such as family member, spouse, friend, acquaintance or stranger) is irrelevant.

Acquaintance Rape is a form of sexual misconduct committed by an individual known to the victim. This includes a person the victim may have just met; i.e., at a party, introduced through a friend, or on a social networking website.

Affirmative Consent means an informed, affirmative, conscious, voluntary, and mutual agreement to engage in sexual activity. It is the responsibility of each person involved in the sexual activity to ensure that s/he has the affirmative consent of the other participant(s) to engage in the sexual activity. Lack of protest or resistance does not mean consent nor does silence mean consent. Affirmative consent must be voluntary, and given without coercion, force, threats or intimidation.

- The existence of a dating or social relationship between those involved, or the fact of past sexual activities between them, should never by itself be assumed to be an indicator of affirmative consent. A request for someone to use a condom or birth control does not, in and of itself, constitute affirmative consent.
- Affirmative consent can be withdrawn or revoked. Consent to one form of sexual activity (or sexual act) does not constitute consent to other forms of sexual activity. Consent given to sexual activity on one occasion does not constitute consent on another occasion. There must always be mutual and affirmative consent to engage in sexual activity. Consent must be ongoing throughout a sexual activity and can be revoked at any time, including after penetration. Once consent is withdrawn or revoked, the sexual activity must stop immediately.

- A person who is incapacitated cannot give affirmative consent. A person is unable to consent when s/he is asleep, unconscious or is incapacitated due to the influence of drugs, alcohol, or medication so that s/he could not understand the fact, nature or extent of the sexual activity. A person is incapacitated if s/he lacks the physical and/or mental ability to make informed, rational decisions.
- Whether an intoxicated person (as a result of using alcohol or other drugs) is incapacitated depends on the extent to which the alcohol or other drugs impact the person's decision-making capacity, awareness of consequences, and ability to make fully informed judgments. A person's own intoxication or incapacitation from drugs or alcohol does not diminish that person's responsibility to obtain affirmative consent before engaging in sexual activity.
- A person with a medical or mental disability may also lack the capacity to give consent.
- Sexual activity with a minor (a person under 18 years old) is not consensual, because a minor is considered incapable of giving legal consent due to age.
- It shall not be a valid excuse that a person affirmatively consented to the sexual activity if the respondent knew or reasonably should have known that the person was unable to consent to the sexual activity under any of the following circumstances:
 - The person was asleep or unconscious;
 - The person was incapacitated due to the influence of drugs, alcohol or medication, so that the person could not understand the fact, nature or extent of the sexual activity;
 - The person was unable to communicate due to a mental or physical condition
- It shall not be a valid excuse that the respondent believed that the person consented to the sexual activity under either of the following circumstances:
 - The respondent's belief in affirmative consent arose from the intoxication or recklessness of the respondent;
 - The respondent did not take reasonable steps, in the circumstances known to the respondent at the time, to ascertain whether the person affirmatively consented.

Consensual Relationships

Consensual relationship means a sexual or romantic relationship between two persons who voluntarily enter into such a relationship. While sexual and/or romantic relationships between members of the university community may begin as consensual, they may evolve into situations that lead to discrimination, harassment, retaliation, sexual misconduct, dating or domestic violence or stalking.

1. A university employee shall not enter into a consensual relationship with a student or employee over whom s/he exercises direct or otherwise significant academic, administrative, supervisory, evaluative, counseling, or extracurricular authority. In the event such a relationship already exists, each campus shall develop a procedure to reassign such authority to avoid violations of this policy.
 - This prohibition does not limit the right of an employee to make a recommendation on the personnel matters concerning a family or household member where the right to make recommendations on such personnel matters is explicitly provided for in the applicable collective bargaining agreement or MPP/confidential personnel plan.

Domestic Violence is abuse committed against someone who is a current or former spouse, current or former cohabitant, someone with whom the respondent has a child, someone with whom the respondent has or had a dating or engagement relationship, or a person similarly situated under

California domestic or family violence law. Cohabitant means two unrelated persons living together for a substantial period of time, resulting in some permanency of relationship. It does not include roommates who do not have a romantic, intimate, or sexual relationship. Factors that may determine whether persons are cohabiting include, but are not limited to (1) sexual relations between the parties while sharing the same living quarters, (2) sharing of income or expenses, (3) joint use or ownership of property, (4) whether the parties hold themselves out as spouses, (5) the continuity of the relationship, and (6) the length of the relationship. For purposes of this definition, "abuse" means intentionally or recklessly causing or attempting to cause bodily injury or placing another person in reasonable apprehension of imminent serious bodily injury to himself or herself, or another. Abuse does not include non-physical, emotional distress or injury.

Dating Violence is abuse committed by a person who is or has been in a social or dating relationship of a romantic or intimate nature with the victim. This may include someone the victim just met; i.e., at a party, introduced through a friend, or on a social networking website. For purposes of this definition, "abuse" means intentionally or recklessly causing or attempting to cause bodily injury or placing another person in reasonable apprehension of imminent serious bodily injury to himself or herself, or another. Abuse does not include non-physical, emotional distress or injury.

Stalking means engaging in a repeated course of conduct directed at a specific person that would cause a reasonable person to fear for his/her or others' safety or to suffer substantial emotional distress. For purposes of this definition:

1. Course of conduct means two or more acts, including but not limited to, acts in which the stalker directly, indirectly, or through third parties, by any action, method, device, or means, follows, monitors, observes, surveils, threatens, or communicates to or about a person, or interferes with a person's property;
2. Reasonable person means a reasonable person under similar circumstances and with the same protected status(es) as the complainant;
3. Substantial emotional distress means significant mental suffering or anguish that may, but does not necessarily, require medical or other professional treatment or counseling.

Note: See further information in Cal State East Bay's sexual violence prevention and education statement, Title IX Notice of Nondiscrimination at <http://www.csueastbay.edu/af/departments/risk-management/investigations/files/docs/notice-of-non-discrimination.pdf> which includes facts and myths about sexual violence at: <http://www.csueastbay.edu/af/departments/risk-management/files/docs/eo-1095-attachment-b-myths-and-facts-2015.pdf>, and Victim's Rights and Options Notice at <http://www.csueastbay.edu/af/departments/risk-management/risk/files/docs/eo-attachment%20c.pdf>

Whom to Contact With Complaints, Questions, or Concerns

Title IX requires the University to designate a Title IX Coordinator to monitor and oversee overall Title IX compliance. Cal State East Bay's Title IX Coordinator is available to explain and discuss the right to file a criminal complaint (for example, in cases of sexual misconduct); the University's complaint process, including the investigation process; how confidentiality is handled; available resources, both on and off campus; and other related matters. *In the midst of an emergency, please call the police immediately by dialing 9-1-1.*

CSUEB Title IX Coordinator: Terri LaBeaux (510) 885-4918 title9@csueastbay.edu
25800 Carlos Bee Blvd. Hayward, CA 94542 Monday - Friday
8:30am - 5:00pm

CSUEB Title IX Officer: Nyassa Love Johnson (510) 885-2743
Risk Management and Internal Control 25800 Carlos Bee Blvd. SA 1600
Hayward, CA 94542 Monday - Friday 8:30am - 5:00pm

CSUEB Deputy Title IX Coordinators: Bethany Hobbs-Helmus, Intercollegiate Athletics (510) 885-7624;
Shirley Mar, DHR Senior Investigator (510) 885-4326

University Police Lieutenant: Omar Miakhail (510) 885-3791
25800 Carlos Bee Blvd. Hayward, CA 94542

Hayward Police Department Special Victims Unit: 300 W. Winton Ave. Hayward, CA (510) 293-7034
Non-emergency: (510) 293-7000

Concord Police Department : Non-emergency: (925) 671-3220
Emergency: (925) 671-3333 from cell phone

U.S. Department of Education, Office for Civil Rights (OCR): (800) 421-3481, or
(415) 486-5555, or
(800) 877-8339 (TDD) or
ocr.sanfrancisco@ed.gov

If you wish to fill out a complaint form online with the OCR, you may do so at:
www2.ed.gov/about/offices/list/ocr/complaintintro.html.

Title IX requires the University to adopt and publish complaint procedures that provide for prompt and equitable resolution of gender discrimination complaints, including sexual harassment and misconduct, as well as provide training, education, and preventive measures related to sex discrimination. CSU Executive Order 1097 (<http://www.calstate.edu/EO/EO-1097-rev-10-5-16.pdf>) (or any successor executive order) is the systemwide procedure for all complaints of discrimination, harassment, or retaliation *made by students* against the CSU, a CSU employee, other CSU students, or a third party.

Except as provided below under Confidentiality and Sexual Misconduct, Dating Violence, Domestic Violence, and Stalking, **any** University employee who knows or has reason to know of allegations or acts that violate University policy shall promptly inform the Title IX Coordinator. These employees are

required to disclose all information including the names of the parties, *even where the person has requested that his/her name remain confidential*. The Title IX Coordinator will determine whether confidentiality is appropriate given the circumstances of each such incident. (See confidential reporting options outlined in this chapter.)

Regardless of whether an alleged victim of gender discrimination ultimately files a complaint, if the campus knows or has reason to know about possible sexual discrimination, harassment, or misconduct, it must review the matter to determine if an investigation is warranted. The campus must then take appropriate steps to eliminate any gender discrimination/harassment/misconduct, prevent its recurrence, and remedy its effects.

Safety of the Campus Community is Primary

The University's primary concern is the safety of its campus community members. The use of alcohol or drugs never makes the victim at fault for gender discrimination, harassment or misconduct; therefore, victims should not be deterred from reporting incidents of sexual misconduct out of a concern that they might be disciplined for related violations of drug, alcohol or other University policies. Except in extreme circumstances, victims of sexual misconduct shall not be subject to discipline for related violations of the Student Conduct Code.

Information Regarding Campus, Criminal & Civil Consequences of Committing Acts of Sexual Violence

Individuals alleged to have committed sexual misconduct may face criminal prosecution by law enforcement and may incur penalties as a result of civil litigation. In addition, employees and students may face discipline at the University, up to and including suspension or expulsion. Employees may face sanctions up to and including dismissal from employment, pursuant to established CSU policies and provisions of applicable collective bargaining unit agreements.

Students who are charged by the university with gender discrimination, harassment or misconduct will be subject to discipline, pursuant to the California State University Student Conduct Procedures (see Executive Order 1098 at www.calstate.edu/EO/EO-1098-rev-6-23-15.pdf or any successor executive order) and will be subject to appropriate sanctions. In addition, during any investigation, the university may implement interim measures in order to maintain a safe and non-discriminatory educational environment. Such measures may include but not be limited to: immediate interim suspension from the university; a required move from university-owned or affiliated housing; adjustments to course schedule; and/or prohibition from contact with parties involved in the alleged incident.

Confidentiality & Sexual Misconduct, Dating Violence, Domestic Violence & Stalking

The University encourages victims of sexual misconduct, dating violence, domestic violence or stalking to talk to someone about what happened - so they can get the support they need, and so the University can respond appropriately.

Privileged and Confidential Communications

Physicians, Psychotherapists, Professional Licensed Counselors, Licensed Clinical Social Workers, and Clergy who work or volunteer on or off campus, acting solely in those roles or capacities as part of their employment, and who provide medical or mental health treatment or counseling (and those who act under their supervision, including all individuals who work or volunteer in their centers and offices) including those who act in that role under their supervision) may not report any information about an incident of sexual misconduct to anyone else at the University, including the Title IX Coordinator, without the victim's consent. A victim can seek assistance and support from physicians, psychotherapists, professional, licensed counselors, licensed clinical social workers and clergy without triggering a university investigation that could reveal the victim's identity or the fact of the victim's disclosure. However, see limited exceptions below regarding when health care practitioners must report to local law enforcement agencies. Health care practitioners should explain these limited exceptions to victims, if applicable.

Sexual Assault and Domestic Violence Counselors and Advocates who work or volunteer on or off campus in sexual assault centers, victim advocacy offices, women's centers and health centers and who are acting solely in that role (including those who act in that role under their supervision, along with non-professional counselors or advocates who work or volunteer in sexual assault centers, victim advocacy offices, women's centers, gender equity centers, or health centers), may talk to a victim without revealing any information about the victim and the incident of sexual misconduct to anyone else at the University, including the Title IX Coordinator, without the victim's consent. A victim can seek assistance and support from these counselors and advocates without triggering a University investigation that could reveal his/her identity or that a victim disclosed an incident to them. However, see limited exceptions below regarding when sexual assault and domestic violence counselors and advocates must report to local law enforcement agencies. Counselors and advocates should explain these limited exceptions to victims, if applicable.

The University will be unable to conduct an investigation into a particular incident or pursue disciplinary action against a perpetrator if a victim chooses to (1) speak only to a physician, professional licensed counselor, licensed clinical social worker, clergy member, sexual assault counselor, domestic violence counselor or advocate; and (2) maintain complete confidentiality. Even so, these individuals will assist victims in receiving other necessary protection and support, such as victim advocacy, disability, medical/health or mental health services, or legal services, and will advise victims regarding their right to file a Title IX complaint with the University and a separate complaint with local or University Police. If a victim insists on confidentiality, such professionals, counselors and advocates will likely not be able to assist the victim with: university academic support or accommodations; changes to university-based living or working schedules; or adjustments to course schedules. A victim who at first requests confidentiality may later decide to file a complaint with the University or report the incident to the police, and thus have the incident fully investigated. These counselors and advocates can provide victims with that assistance if requested by the victim. These counselors and advocates will also explain that Title IX includes protections against retaliation, and that the University will not only take steps to prevent retaliation when it knows or reasonably should know of possible retaliation, but will also take strong responsive action if retaliation occurs.

EXCEPTIONS

Under California law, any health practitioner employed in a health facility, clinic, physician's office, or local or state public health department or clinic is required to make a report to local law enforcement if he or she provides medical services for a *physical condition* to a patient/victim who he or she knows or reasonably suspects is suffering from (1) a wound or physical injury inflicted by a firearm; or (2) any wound or other physical injury inflicted upon a victim where the injury is the result of assaultive or abusive conduct (including sexual misconduct, domestic violence, and dating violence). This exception does not apply to sexual assault and domestic violence counselors and advocates. Health care practitioners should explain this limited exception to victims, if applicable.

Additionally, under California law, *all* professionals described above (physicians, psychotherapists, professional counselors, licensed clinical social workers, clergy, and sexual assault and domestic violence counselors and advocates) are mandatory child abuse and neglect reporters, and are required to report incidents involving victims under 18 years of age to local law enforcement. These professionals will explain this limited exception to victims, if applicable.

Finally, some or all of these professionals may also have reporting obligations under California law to: (1) local law enforcement in cases involving threats of immediate or imminent harm to self or others where disclosure of the information is necessary to prevent the threatened danger; or (2) to the court if compelled by court order or subpoena in a criminal proceeding related to the sexual misconduct, dating or domestic violence, or stalking incident. If applicable, these professionals will explain this limited exception to victims.

Reporting to University Police or University Employees

REPORTING TO UNIVERSITY OR LOCAL POLICE

If a victim reports to local or university police about sexual misconduct crimes, the police are required to notify victims that their names will become a matter of public record unless confidentiality is requested. If a victim requests that his/her identity be kept confidential, his/her name will not become a matter of public record and the police will not report the victim's identity to anyone else at the University, including the Title IX Coordinator. University police will, however, report the facts of the incident itself to the Title IX Coordinator being sure not to reveal to the Title IX Coordinator victim names/identities or compromise their own criminal investigation. The University is required by the federal Clery Act to report certain types of crimes (including certain sex offenses) in statistical reports. However, while the University will report the type of incident in the annual crime statistics report known as the Annual Security Report, victim names/identities will not be revealed.

REPORTING TO THE TITLE IX COORDINATOR AND OTHER UNIVERSITY EMPLOYEES

Most university employees have a duty to report incidents of sexual misconduct when they are on notice of it. When a victim tells the Title IX Coordinator or another university employee about an incident of sexual misconduct, the victim has the right to expect the University to take immediate and appropriate steps to investigate what happened and to resolve the matter promptly and equitably. In all cases, the University strongly encourages victims to report incidents of sexual misconduct directly to the campus Title IX Coordinator. As detailed above, in the "Privileged and Confidential Communications" section of

this policy, all university employees except physicians, licensed professional counselors, licensed clinical social workers, sexual assault counselors and advocates, must report to the Title IX Coordinator all relevant details about any incidents of sexual misconduct of which they become aware. The University will need to determine what happened - and will need to know the names of the victim(s) and the perpetrator(s), any witnesses, and any other relevant facts, including the date, time and specific location of the incident.

To the extent possible, information reported to the Title IX Coordinator or other university employees will be shared only with individuals responsible for handling the University's response to the incident. The University will protect the privacy of individuals involved in a sexual misconduct violence incident except as otherwise required by law or university policy. A report of sexual misconduct may result in the gathering of extremely sensitive information about individuals in the campus community. While such information is considered confidential, university policy regarding access to public records and disclosure of personal information may require disclosure of certain information concerning a report of sexual misconduct. In such cases, efforts will be made to redact the records, as appropriate, in order to protect the victim's identity and privacy and the privacy of other involved individuals. Except as detailed in the section on "Privileged and Confidential Communications" above, no university employee, including the Title IX Coordinator, should disclose the victim's identity to the police without the victim's consent or unless the victim has also reported the incident to the police.

If a victim requests of the Title IX Coordinator or another university employee that his/her identity remain completely confidential, the Title IX Coordinator will explain that the University cannot always honor that request or guarantee complete confidentiality. If a victim wishes to remain confidential or request that no investigation be conducted or disciplinary action taken, the University must weigh that request against the University's obligation to provide a safe, non-discriminatory environment for all students, employees, and third parties, including the victim. Under those circumstances, the Title IX Coordinator will determine whether the victim's request for complete confidentiality and/or no investigation can be honored under the facts and circumstances of the particular case, including whether the University has a legal obligation to report the incident, conduct an investigation or take other appropriate steps. Without information about a victim's identity, the University's ability to meaningfully investigate the incident and pursue disciplinary action against the perpetrator may be severely limited. See Executive Order 1095 (or any successor executive order) for further details around confidential reporting, and other related matters (<http://www.calstate.edu/eo/EO-1095-rev-6-23-15.pdf>).

Additional Resources

- Cal State East Bay's sexual misconduct violence prevention and education statement, which includes facts and myths about sexual misconduct violence: <http://www.csueastbay.edu/af/departments/risk-management/risk/files/docs/eo-1095-attachment-c.pdf>
- U.S. Department of Education, regional office: Office for Civil Rights, 50 United Nations Plaza San Francisco, CA 94102 (415) 486-5555, TDD (877) 521-2172
- U.S. Department of Education, national office: Office for Civil Rights (800) 872-5327
- Know Your Rights about Title IX <http://www2.ed.gov/about/offices/list/ocr/docs/title-ix-rights-201104.html>

- California Coalition Against Sexual Assault (<http://calcasa.org/>) 1215 K. Street, Suite 1850, Sacramento, CA 95814, (916) 446-2520
- Domestic and Family Violence, Office of Justice Programs, United States Department of Justice
- National Institute of Justice: Intimate Partner Violence, Office of Justice Programs, United States Department of Justice
- National Domestic Violence Hotline: 1-800-799-SAFE (7233)
- Office of Violence against Women, United States Department of Justice
- Centers for Disease Control and Prevention: Intimate Partner Violence
- Defending Childhood, United States Department of Justice
- Local Police:

Oakland Police Department Non-emergency: (510) 777-3333 Emergency: (510) 777-3211 from cell phone

BART Police Non-emergency: 1-877-679-7000

Alameda County Sheriff Emergency Services Dispatch: (510) 667-7721

East Bay Regional Parks Police Department Non-emergency, 24-hour: (510) 881-1833
Emergency: (510) 881-1121 from cell phone

Data Integrity Policy

Student, Faculty, and University Responsibilities to Ensure the Data Integrity of Academic Work

Purpose and Scope

The purpose of this policy is to establish the rights and responsibilities of students, faculty, and the university in regards to the loss, re-attempt, and/or resubmission of coursework data in the event of verified data or service loss. This policy applies to student and faculty interactions with academic systems or academic functions within more comprehensive systems and does not apply to administrative systems or functions.

Definitions of Data Loss

- Catastrophic data loss is defined as the absolute corruption or destruction of data without any chance of recoverability on the part of its owner through data redundancy measures.
- Data redundancy measures refer to the means and methods for saving and restoring copies of data prior to the point of its absolute corruption or destruction. This is more commonly known as making a "backup" of data.
- Service loss is defined as the loss of services that interrupt and prevent the normal flow of academic work.
- Examples of such services include the Learning Management System (LMS), other systems through which assignments are digitally submitted (for example, network drives), data housed on third-party applications such as Google, VoiceThread, or Pearson, or software provided by companies such as WordPress.

Coursework Data

Coursework data is defined as digital products, materials, and works created, edited, and completed by the student or with which the student interacts as required by coursework specified by the instructor.

Coursework data takes many forms, some of which include single data files (e.g. word processing files, presentation files, multimedia files), compressed archives (e.g. .zip files, .rar files), interactive coursework and assessments (e.g. online exams), and synchronous and asynchronous communication across multiple computing platforms (e.g. webinars, synchronous collaborative documents). While these examples represent a wide variety of the kinds of coursework data that may be required in a classroom, it is understood that the pace of change and innovation in technology introduces new and updated types of coursework data that may not be listed here but are also included as part of this policy.

Responsibilities for the Prevention or Management of Data Loss

- Multiple individual users and groups are responsible for the prevention and restoration of data and service, and the mitigation of damage when irreversible loss occurs. These include: the University, third-party vendors, and end users.
 - The University
 - Data and/or service loss resulting from university systems is known as institutional data loss. The University is responsible for ensuring the integrity of services it provides, either directly, if the data resides on university servers, or indirectly, if the data resides on servers operated by third-party vendors. To minimize the impact of university systems failure, appropriate university personnel will
 - ensure that data is backed up on a regular schedule;
 - restore lost data as quickly as possible; and
 - communicate necessary information via Campus Announcements, including the appropriate requirements of this policy, and providing follow-up Campus Announcements regarding the status of services, as needed.
 - Third-party Vendors and Software
 - In the case of data or service loss by third-party vendors or the use of software not provided by the University, variations will occur depending on the stability and depth of the company providing data, services or software. Within its ability, the University will:
 - ensure that provisions related to the prevention and restoration of data and/or services are included in contracts, and also requirements that the vendor back up data regularly and notify the University when data or service loss occurs;
 - notify the third-party vendor of observable losses when noted at the University;
 - work with the third-party vendor to ensure that data is restored from the last back-up and/or that service is restored as quickly as possible;
 - ensure that the vendor provides appropriate communications to the University regarding the status of data and services; and
 - receive and interpret vendor communications and/or communicate necessary information via a Campus Announcement, invoking the appropriate requirements

of this policy, as appropriate; and provide follow-up Campus Announcements regarding the status of data and services, as needed.

- Campus Announcements should stipulate
 - the nature of the problem;
 - the actions being taken to resolve the problem; and
 - the anticipated recovery time as soon as it is known.

While the University is indirectly responsible for working with third-party vendors and communicating appropriately to the user community, the University cannot be directly held responsible for third-party data losses. Further, should individual faculty, departments, or colleges contract with third-party vendors for data services without the knowledge, authorization, and approval of the institution, the individual, department, or college will be responsible for ensuring data integrity and communicating with the group of users involved in those services.

- Individual Users
 - Individual users (students and faculty) are responsible for preventing data loss by making backups of coursework data. The minimum recommended number of backups is two. Examples of backup methods include: flash drives, emailing documents to self, use of a third-party service such as Carbonite, and backup to external drives. Regardless of the method chosen, backups should be conducted regularly and often, and individuals should "save" their work frequently throughout its creation.
 - It is also important to note that if an individual is working on a university computer (in offices, in the learning commons/library, or elsewhere on campus), the individual is responsible for making appropriate back-ups and saving often to ensure data integrity. Work being created by an individual during a computer crash is the responsibility of that individual. If back-ups are made sufficiently often, no or minimal loss should occur and restoration should be simple. The exception is if the data cannot be backed up regularly, e.g., during the taking of a test in Blackboard.

Rights in the Case of Data Loss

In the case of data loss as a result of the failure of the University or third-party vendors, i.e., a loss that is not the responsibility of students or faculty, accommodations will be made to mitigate negative consequences that may result. Examples of system failures include:

- unscheduled downtime (a "crash"), where an assignment is due between the time of the crash and the last system backup or the last possible restoration point in the case of a failed backup. This could occur in the LMS or in a computer lab;
- unacceptable patterns of slowness/crash/partial recovery/full recovery occurring when assignments are due or online exams/quizzes/tests are underway, making it impossible for students to meet deadlines;
- third-party service interruption or stoppage where students are unable to complete assignments or work by deadlines; and
- power outages in computer labs during exams.

When possible, Information Technology will notify the University community of system failures, but not all will be immediately visible to a faculty member. If no campus announcement has been issued, faculty

should verify any student-reported loss with the Information Technology Service Desk to determine if s/he should implement this policy.

It is understood that there are conditions that are beyond the control of an individual. As a result, faculty are advised to provide students with alternate means of submission in event of an application or browser failure or some other condition, and to include a description of these alternate means in their syllabi. Should data loss occur due to a student's not fulfilling his/her responsibility to back up data appropriately, however, the student is responsible for that failure.

Policy Statements

When an institutional data loss or loss of service is verified by Information Technology Services (ITS) and noted on the learning management site (LMS), students will be allowed to resubmit coursework data and re-attempt tests within 72 hours of the implementation of data redundancy measures and the restoration of service by the institution as verified by ITS. If the window for completing coursework or tests is shorter than 72 hours, a new window (start-stop times) can be created by the faculty member, but a time frame of 72 hours takes into account the possibility that loss and restoration might occur over a weekend period.

For required third-party online sites, such as homework sites associated with publishers, the faculty member will post the method for notification of outages or malfunctions with his/her syllabus on Blackboard. Students shall be given at least 72 hours after restoration of service to complete assignments.

When data loss takes the form of a university computer lab failing during an examination period (for example, a blackout occurs during a midterm), the faculty member shall provide an appropriate accommodation for the resumption of the exam.

Beyond these conditions, students bear the sole responsibility for backing up their coursework data and ensuring data redundancy in the event of non-institutional data loss.

In addition, to providing statements in their syllabi about accommodations in case of data loss, faculty should also provide a statement to explain students' responsibilities in regards to backing up their data. Suggesting phrasing is as follows:

"Accommodations will be made for systems failures beyond students' control. These include:

[list accommodation information here] "

Remember!

- **Accommodations will not be made for failure to complete an assignment or project because data has not been backed up.**
- **The "golden rule" for data is that it does not exist unless it is backed up in two or more places on at least two different types of media. Make sure that the backup is not in a temporary file that will disappear when the program is closed or the computer is shut down.**

Student Publication Responsibilities

Student publications and the student press are valuable aids in establishing and maintaining an atmosphere of free and responsible discussion and intellectual exploration on the campus. Students and faculty who produce student publications have the responsibility to establish and adhere to standards of responsible journalism. While student publications and the student press operate with limited external control, the editorial freedom of student editors and managers entails corollary responsibilities to be governed by the concerns of responsible journalism, such as evidence of libel, indecency, undocumented allegations, attacks on personal integrity, and the techniques of harassment and innuendo.

Student Participation in Institutional Government

Students are free to elect peers to serve and represent them in university government as members of the student body. Students who meet eligibility criteria are appointed to various standing committees by the administration and faculty upon the recommendation of the Associated Students Board of Directors. The role of student government is explicitly defined in the California Education Code and CSU policies. Copies of these regulations can be obtained in the office of the Associate Vice President, Campus Life (Student Services and Administration Building, 1st Floor).

Whistleblower Protection

Under the California Whistleblower Protection act, any employee or applicant for employment may make a protected disclosure of an improper government activity or any condition that may significantly threaten the health or safety of employees or the public to the State Auditor, CSU or CSUEB. The procedure for making such protected disclosures is set forth in the document titled "Reporting Procedures for Protected Disclosure of Improper Governmental Activities and/or Significant Threats to Health or Safety" (Executive Order 929) and can be viewed or downloaded at: <http://www.calstate.edu/eo/EO-929.pdf>. The CSUEB administrator responsible for receiving and investigating such disclosures is the Discrimination, Harassment, and Retaliation Administrator, Risk Management and Internal Control. In addition, under the Act, employees and applicants for employment are protected from retaliation from making such protected disclosures. The procedure for making a complaint of retaliation is set forth in the document titled "Revised Complaint Procedure for Allegations of Retaliation for Disclosure under the California Whistleblower Protection Act" (Executive Order 1058) and can be viewed or downloaded at: <http://www.calstate.edu/eo/EO-1058.pdf>. As with protected disclosures, Risk Management and Internal Control is responsible for receiving and investigating retaliation complaints.

Student Complaint Procedure (Complaints Regarding the CSU)

The California State University takes very seriously complaints and concerns regarding the institution. If a student has a complaint regarding the CSU, they may present their complaint as follows:

1. If the complaint concerns CSU's compliance with academic program quality and accrediting standards, the complaint may be presented to the Western Association of Schools and Colleges (WASC) at www.wascsenior.org/comments. WASC is the agency that accredits the CSU's

academic program. If the student believes that the complaint warrants further attention after having exhausted all the steps outlined by WASC, an appeal may be filed with the Assistant Vice Chancellor, Academic and Student Affairs at the CSU Chancellor's Office.

2. If the complaint concerns an alleged violation by CSU of any law that prohibits discrimination, harassment, or retaliation based on a protected status (such as age, disability, gender (or sex), gender identity, gender expression, nationality, race or ethnicity (including color or ancestry), religion or veteran or military status), the complaint may be presented as described in Section XVI (Nondiscrimination Policy).
3. If the complaint concerns an alleged violation by the CSU of other state law, including laws prohibiting fraud and false advertising, the complaint may be presented to the campus president or Director for Compliance and Internal Control. See Procedure for Student Complaints- Executive Order No. 1063 for details regarding the complaint requirements and complaint process: www.calstate.edu/eo/eo-1063.html.
4. Other complaints regarding the CSU may be presented to the campus dean of students, who will provide guidance on the appropriate campus process for addressing your particular issue.

This procedure should not be construed to limit any right that you may have to take legal action to resolve your complaint.

Appealing an Inappropriate Grade

Faculty have the sole right and responsibility to provide careful evaluation and timely assignment of appropriate grades. There is a presumption that grades assigned are correct. It is the responsibility of anyone appealing an assigned grade to demonstrate otherwise. In the absence of compelling reasons, such as instructor or clerical error, prejudice or capriciousness, the grade assigned by the instructor of record is to be considered final. Students who believe that an appropriate grade has not been assigned should attempt to resolve the problem with their instructor. If the student is not satisfied with the outcome, they should discuss the issue with the department chair in which the course was offered. If the issue is not resolved, the student should make an appointment with the dean or associate dean of the college in which the course is offered. If all previous actions fail, the student should contact the Presidential Appointee to the Grade Appeal and Academic Grievance Committee by calling (510) 885-3716. If the student has applied for graduation, the student should notify their graduation evaluator that a question is pending resolution. Once a degree is posted, no grade changes will be allowed.

Grade Appeal and Academic Grievance Committee

The Grade Appeal and Academic Grievance process, administered by this committee, allows students to resolve serious cases of alleged academic unfairness. After every effort by all parties to resolve the dispute has been ineffective, students can discuss their case with the Presidential Appointee to the Grade Appeal and Academic Grievance Committee. The Presidential Appointee will assist students in exhausting all normal channels and, if necessary, in filing a Petition (see link below) for a Grade Appeal Hearing. Students will need to submit their petition and supporting documentation to the Academic Programs and Services Office. The committee will review this documentation and the response(s) filed by the other parties involved in the dispute. If the committee finds possible grounds for a grievance, a Hearing Panel will be convened to hear the case. Under normal circumstances, the student must file

their Petition before the end of the semester following the semester in which the alleged incident took place.

The Grade Appeal and Academic Grievance Committee is empowered to change a grade in accordance with the Grade Appeal Document and to assign a grade in cases where the instructor may have assigned an unfair academic grade. The Grade Appeal and Academic Grievance Committee is authorized to change a grade only after it has conducted a proper review of the case.

Grade Appeal Petition Form

For additional information see the **Student Rights, Responsibilities & Conduct** chapter.

More information is available from the Office of Academic Programs and Services (Student Services and Administration Building, Suite 4500; Tel. (510) 885-3716)

Student Conduct

Title 5, California Code of Regulations, § 41301. Standards for Student Conduct

Campus Community Values

The University is committed to maintaining a safe and healthy living and learning environment for students, faculty, and staff. Each member of the campus community should choose behaviors that contribute toward this end. Students are expected to be good citizens and to engage in responsible behaviors that reflect well upon their university, to be civil to one another and to others in the campus community, and contribute positively to student and university life.

Grounds for Student Discipline

Student behavior that is not consistent with the Student Conduct Code is addressed through an educational process that is designed to promote safety and good citizenship and, when necessary, impose appropriate consequences. The following are the grounds upon which student discipline can be based:

- Dishonesty, including:
 - Cheating, plagiarism, or other forms of academic dishonesty that are intended to gain unfair academic advantage.
 - Furnishing false information to a University official, faculty member, or campus office.
 - Forgery, alteration, or misuse of a University document, key, or identification instrument.
 - Misrepresenting one's self to be an authorized agent of the University or one of its auxiliaries.
- Unauthorized entry into, presence in, use of, or misuse of University property.
- Willful, material and substantial disruption or obstruction of a University-related activity, or any on-campus activity.
- Participating in an activity that substantially and materially disrupts the normal operations of the University, or infringes on the rights of members of the University community.

- Willful, material and substantial obstruction of the free flow of pedestrian or other traffic, on or leading to campus property or an off-campus University related activity.
- Disorderly, lewd, indecent, or obscene behavior at a University related activity, or directed toward a member of the University community.
- Conduct that threatens or endangers the health or safety of any person within or related to the University community, including physical abuse, threats, intimidation, harassment, or sexual misconduct.
- Hazing or conspiracy to haze. Hazing is defined as any method of initiation or pre-initiation into a student organization or student body, whether or not the organization or body is officially recognized by an educational institution, which is likely to cause serious bodily injury to any former, current, or prospective student of any school, community college, college, university or other educational institution in this state (Penal Code 245.6), and in addition, any act likely to cause physical harm, personal degradation or disgrace resulting in physical or mental harm, to any former, current, or prospective student of any school, community college, college, university or other educational institution. The term "hazing" does not include customary athletic events or school sanctioned events.
 - Neither the express or implied consent of a victim of hazing, nor the lack of active participation in a particular hazing incident is a defense. Apathy or acquiescence in the presence of hazing is not a neutral act, and is also a violation of this section.
- Use, possession, manufacture, or distribution of illegal drugs or drug- related paraphernalia, (except as expressly permitted by law and University regulations) or the misuse of legal pharmaceutical drugs.
- Use, possession, manufacture, or distribution of alcoholic beverages (except as expressly permitted by law and University regulations), or public intoxication while on campus or at a University related activity.
- Theft of property or services from the University community, or misappropriation of University resources.
- Unauthorized destruction or damage to University property or other property in the University community.
- Possession or misuse of firearms or guns, replicas, ammunition, explosives, fireworks, knives, other weapons, or dangerous chemicals (without the prior authorization of the campus president) on campus or at a University related activity.
- Unauthorized recording, dissemination, or publication of academic presentations (including handwritten notes) for a commercial purpose.
- Misuse of computer facilities or resources, including:
 - Unauthorized entry into a file, for any purpose.
 - Unauthorized transfer of a file.
 - Use of another's identification or password.
 - Use of computing facilities, campus network, or other resources to interfere with the work of another member of the University community.
 - Use of computing facilities and resources to send obscene or intimidating and abusive messages.
 - Use of computing facilities and resources to interfere with normal University operations.
 - Use of computing facilities and resources in violation of copyright laws.

- Violation of a campus computer use policy.
- Violation of any published University policy, rule, regulation or presidential order.
- Failure to comply with directions or, or interference with, any University official or any public safety officer while acting in the performance of his/her duties.
- Any act chargeable as a violation of a federal, state, or local law that poses a substantial threat to the safety or well-being of members of the University community, to property within the University community or poses a significant threat of disruption or interference with University operations.
- Violation of the Student Conduct Procedures, including:
 - Falsification distortion, or misrepresentation of information related to a student discipline matter.
 - Disruption or interference with the orderly progress of a student discipline proceeding.
 - Initiation of a student discipline proceeding in bad faith.
 - Attempting to discourage another from participating in the student discipline matter.
 - Attempting to influence the impartiality of any participant in a student discipline matter.
 - Verbal or physical harassment or intimidation of any participant in a student discipline matter.
 - Failure to comply with the sanction(s) imposed under a student discipline proceeding.
- Encouraging, permitting, or assisting another to do any act that could subject him or her to discipline.

Procedures for Enforcing This Code

The Chancellor shall adopt procedures to ensure students are afforded appropriate notice and an opportunity to be heard before the University imposes any sanction for a violation of the Student Conduct Code.

Note: At the time of publication, such procedures are set forth in California State University Executive Order 1098 (Revised June 23, 2015).

Application of This Code

Sanctions for the conduct listed above can be imposed on applicants, enrolled students, students between academic terms, graduates awaiting degrees, and students who withdraw from school while a disciplinary matter is pending. Conduct that threatens the safety or security of the campus community, or substantially disrupts the functions or operation of the University is within the jurisdiction of this Article regardless of whether it occurs on or off campus. Nothing in this Code may conflict with Education Code Section 66301 that prohibits disciplinary action against students based on behavior protected by the First Amendment.

Title 5, California Code of Regulations, § 41302. Disposition of Fees: Campus Emergency; Interim Suspension.

The President of the campus may place on probation, suspend, or expel a student for one or more of the causes enumerated in Section 41301. No fees or tuition paid by or for such student for the semester, quarter, or summer session in which he or she is suspended or expelled shall be refunded. If the student is

readmitted before the close of the semester, quarter, or summer session in which he or she is suspended, no additional tuition or fees shall be required of the student on account of the suspension.

During periods of campus emergency, as determined by the President of the individual campus, the President may, after consultation with the Chancellor, place into immediate effect any emergency regulations, procedures, and other measures deemed necessary or appropriate to meet the emergency, safeguard persons and property, and maintain educational activities.

The President may immediately impose an interim suspension in all cases in which there is reasonable cause to believe that such an immediate suspension is required in order to protect lives or property and to insure the maintenance of order. A student so placed on interim suspension shall be given prompt notice of charges and the opportunity for a hearing within 10 days of the imposition of interim suspension. During the period of interim suspension, the student shall not, without prior written permission of the President or designated representative, enter any campus of the California State University other than to attend the hearing. Violation of any condition of interim suspension shall be grounds for expulsion.

Academic Dishonesty

Academic Dishonesty includes, but is not limited to:

- **cheating**, which includes possessing unauthorized sources of information during examinations, copying the work of others, permitting others to copy a student's own work, submitting work done by others, completing assignments for others, altering work after grading and subsequently submitting it for re-grading, submitting the same work for two or more classes without the permission of all instructors involved, or retaining materials that students have been instructed to return to their instructor;
- *plagiarism*, which includes taking the words, ideas, or substance of another and either copying or paraphrasing the work without giving credit to the source through appropriate use of footnotes, quotation marks, or reference citations;
- *providing materials to another* with knowledge they will be improperly used;
- *possessing another's work* without permission;
- *selling, purchasing, or trading materials* for class assignments (includes purchasing term papers via the internet);
- *altering the work* of another;
- *knowingly furnishing false or incomplete* academic information;
- *altering documents* that make up part of the student record;
- *forging signatures* or falsifying information on any official academic document;
- *inventing data* or falsifying an account of the method through which data was generated.

Evidence of Academic Dishonesty

Faculty members are expected to instill in their students a respect for integrity and a desire to behave honestly. Deception for individual gain is an offense against the members of the university community. To this end, faculty will take measures to discourage dishonesty, adjust grades appropriately if dishonesty is discovered, and recommend that additional administrative sanctions be considered. Grading policies are the exclusive prerogative of faculty. Non-academic administrative sanctions are the province of the Director of the Office of Student Conduct, Rights and Responsibilities. Telephone: (510) 885-3763.

If there is evidence of dishonesty involving **cheating**: the student should be informed promptly, in private if possible, that they are suspected of cheating. If an exam is in progress, unauthorized materials should be confiscated, and the student should be allowed to finish. If relevant, the names of students in adjoining seats should be noted. If there is evidence involving **plagiarism**: the instructor should assemble documentation and notify the student promptly in private.

Academic Dishonesty Incident Report

Whenever dishonesty occurs, the instructor will take appropriate action and file an "Academic Dishonesty Incident Report" detailing the infraction and the action taken. The report will be filed in the Academic Affairs Office, per Executive Order 1098 with the Office of Student Conduct, Rights and Responsibilities, and the student will receive a copy. The report will remain on file with the Academic Affairs Office for five years or until the student graduates, whichever comes first.

Depending on the circumstances, the student may:

- (a) be warned;
- (b) be required to resubmit work or retake an exam under specified conditions and with a possible grade penalty;
- (c) have the grade adjusted for the assignment; or
- (d) have the grade adjusted in the course, including assignment of an "F" at the discretion of the faculty. If the course grade is adjusted, it is not subject to Grade Forgiveness. See below for further administrative consequences.

Students may appeal an instructor's action to the Grade Appeal Committee (see above). The appeal of an instructor's academic sanction is governed by the "Grade Appeal and Grievance Document."

The instructor may also request that action be taken by the Office of Student Conduct, Rights and Responsibilities. (In any instance of academic dishonesty, however, whereby an academic sanction is imposed, the instructor will file an "Academic Dishonesty Incident Report." See paragraphs above.) At the discretion of the Office of Student Conduct, Rights and Responsibilities, administrative sanctions such as warning, probation, suspension, or expulsion may be imposed. As prescribed in Executive Order 1098, Article V. Sanctions, paragraph E entitled Record of Discipline, a record of disciplinary probation or suspension is entered on a student's transcript, with beginning and end date, for the duration of the sanction. A record of expulsion or suspension for one academic year or more shall note the effective date of discipline and remains on the transcript permanently, without exception. (If an appeal to the Grade Appeal Committee regarding an academic sanction imposed by the instructor is pending, action by the

Office of Student Conduct, Rights and Responsibilities will be postponed until after the adjudication of the appeal.)

The complete text of Title 5, section 41301 of the California Code of Regulations and of Chancellor's Executive Order 1098 can be accessed on the Office of Student Conduct, Rights and Responsibilities website.

Civil & Criminal Penalties for Violation of Federal Copyright Laws

Anyone who is found to be liable for copyright infringement may be liable for either the owner's actual damages along with any profits of the infringer or statutory damages of up to \$30,000 per work infringed. In the case of a willful infringement, a court may award up to \$150,000 per work infringed. (See 17 U.S.C. §504.) Courts also have discretion to award costs and attorneys' fees to the prevailing party. (See 17 U.S.C. §505.) Willful copyright infringement can also result in criminal penalties, including imprisonment and fines. (See 17 U.S.C. §506 and 18 U.S.C. §2319.)

Policies, Standards, and Procedures for Use of Alcohol, Tobacco, and Other Drugs

The possession and/or consumption of alcoholic beverages by anyone under 21 years of age is prohibited at all times on campus and is subject to the penalties imposed by state law and University policies.

Use of illicit drugs (including performance enhancing substances such as anabolic steroids) is forbidden.

Policy Violation and Sanctions

In the Workplace

Any faculty, staff, administrator or other employee who violates the policy on alcohol and other drugs shall be subject to corrective or disciplinary action up to, and including the possibility of dismissal, in accordance with appropriate collective bargaining agreements, CSU policies, and state and federal law. At the discretion of the University, employees found to be in violation of university policy may be required to participate in a substance abuse program, employee assistance program, or other forms of counseling.

Students and Student Organizations

Students and/or student organizations who are alleged to have violated the policy on alcohol, tobacco, and other drugs will be required to meet with the Office of Student Conduct, Rights and Responsibilities. Corrective and educational sanctions will be assigned if it is determined that a violation has occurred.

- Possible sanctions for individual students:
 1. Participation in an alcohol or other drug education program;
 2. Educational requirements;
 3. Disciplinary probation;
 4. Restitution for damages;
 5. Suspension;

6. Expulsion.
 - Possible sanctions for student groups/organizations:
 1. Social probation for a specified period of time;
 2. Restitution for damages;
 3. Freezing of funds, if any are available;
 4. Report of violations to the national headquarters or offices of the organizations if such exist;
 5. Removal of officers from office;
 6. Loss of University recognition and access to campus support services.

Alcohol and Other Drugs Risks and Resources

There are many documented risks associated with alcohol and other drug abuse affecting individuals, families and friends. Alcohol and other drug abuse can lead to serious health and social problems, including short and long-term effects on the body and mind. Additionally, alcohol and other drug abuse can affect academic, athletic, work performance, and can lead to violent or destructive behaviors. There is also a strong relationship between alcohol and other drug abuse and at-risk behaviors.

Alcohol and other drug programs may be requested to supplement academic courses, educate student clubs/organizations, and to provide outreach to the campus community. To request a program, please complete the online form.

CSUEB Campus and Community Resources

For Students: Student Health and Counseling Services (SHCS): 510-885-3735

For Faculty and Staff: Employee Assistance Program (EAP): 1-800-367-7474

Assessment and Referral: 1-800-486-1652

National Alcohol and Drug Treatment Referral: 1-800-454-8966

Alcoholics Anonymous Meetings: East Bay Central Office Directory, 510-839-8900 (24 hrs/day)

For additional information, including the complete Alcohol, Tobacco and Other Drugs Policy and list of community resources, please visit the ATOD website.

Alcohol, Tobacco, and Other Drugs Advisory Council

The California State University, East Bay Alcohol, Tobacco and Other Drugs (ATOD) Advisory Council was established Fall 2001 in response to the Chancellor's directive that CSU campuses provide special attention to the development of alcohol, tobacco, and other drugs policies and prevention programs. The ATOD Council includes representation from CSUEB students, staff, faculty and the community and is divided into five subcommittees:

- Policy
- Assessment
- Education and Prevention
- Community/Treatment

- Funding

The ATOD Advisory Council strives to:

- Educate the campus community about alcohol, tobacco, and other drugs
- Prevent and reduce problems associated with alcohol, tobacco, and other drugs use by CSUEB students, faculty, and staff
- Decrease the amount of high risk drinking behaviors and the potential harm caused by alcohol
- Decrease the amount of drugs usage and the potential harm caused by such usage

ATOD Advisory Council Subcommittee Goals:

- The Policy Subcommittee updates and monitors compliance with university alcohol, tobacco, and other drugs policies. In addition, the subcommittee ensures the dissemination of the CSU East Bay alcohol, tobacco, and other drugs policy.
- The Assessment Subcommittee institutes a process to regularly assess alcohol, tobacco, and other drugs abuse prevention efforts.
- The Education & Prevention Subcommittee educates the campus community regarding policies and issues related to alcohol, tobacco, and other drugs use.
- The Community & Treatment Subcommittee collaborates with the campus and surrounding community to ensure access to treatment and other related resources.
- The Funding Subcommittee ensures adequate funding for campus alcohol and other drugs abuse prevention activities.

University Libraries

University Libraries

University Libraries, LIBY Main Circulation - Open Hours: varies daily - Circulation: (510) 885-3612

Reference: (510) 885-3765, libhelp@csueastbay.edu

Administration: (510) 885-3665, libadmin@csueastbay.edu

John Wenzler, Dean of Libraries

Librarians Emeriti

Douglas B. Highsmith, M.S.L.S. University of Illinois, Urbana-Champaign; M.B.A. Northern Illinois University

Aline Soules, M.S.L.S. Wayne State University; M.A. University of Windsor; M.F.A. Antioch University, Los Angeles

Associate Librarian Emeritus

Dana S. Edwards, M.S.L.I.S. University of Illinois, Urbana-Champaign; M.A. (English as a Foreign Language) Southern Illinois University, Carbondale

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Senior Assistant Librarians

Lee Adams, M.L.I.S. University of Hawaii at Manoa; M.A. (Women's Studies) DePaul University, Chicago

Lana Wood, M.S. Simmons College; M.A. University of California, Davis

University Libraries Mission

The CSUEB Libraries promote student and faculty success by providing comprehensive and convenient access to the scholarly record. The Libraries teach students how to become information literate citizens who will continue to learn throughout their lives. The Libraries serve as a hub of academic support on campus by providing an engaging environment for study and an integrated suite of student services.

Information Resources

The University Libraries offer extensive collections, both in print and online, to support academic programs and faculty research. The libraries hold over 800,000 printed items, including books, journals, scores, maps, and U.S. federal and California state government publications. The libraries maintain over 100 subscriptions to print journals. In addition, they have over 850,000 microform items, and over 30,000 media resources. The libraries subscribe to 133 electronic databases and provides access to approximately 107,000 journals and over 220,000 electronic books.

The University Libraries maintain special collections and archives. Special Collections houses rare and antiquarian books; fine examples of book art; and manuscript collections, such as the Jensen Family papers, which provide rich primary sources on the history of the Hayward area. The University Archives contain the official records of the history of the University, as well as materials pertinent to the history of Southern Alameda County.

Instructional Services

The University Libraries offer information literacy courses. See the Library chapter in the undergraduate section of this catalog for course descriptions and further information. In addition to credit courses, the libraries offer course-specific instruction and workshops at faculty request to complement specific projects and papers assigned in class.

Reference Services

The University Libraries offer reference assistance in person at the Reference Desk, over the telephone, through electronic chat reference, and via email. Librarians are also available by appointment and during scheduled office hours for individual consultation regarding library research. For every department on campus, subject specialist librarians have created a subject guide. For a list of the librarians and their subject areas, see <http://library.csueastbay.edu/aboutthelibraries/subject-specialists>.

Circulation and Borrowing Services

For details about the circulation policies, ask at the Circulation Desk or contact them at (510) 885-3612, or orcircservices@csueastbay.edu. The library participates in CSU+ a service that enables faculty, staff, and students to place their own requests to borrow books that are not available at Cal State East Bay.. Interlibrary Loan staff helps individuals borrow books and journal articles not readily available at the University Libraries or through CSU+. Interlibrary loan requests may be made through the library web site at <https://csueastbay.illiad.oclc.org/illiad/logon.html>.

Media Resources and Reserves

From the Upper Mall service desk of the Main Library, the University Libraries provide access to media resources such as DVDs, CDs, videos, and other formats. Viewing and listening equipment is available. Reserve materials that faculty members have set aside for class use are available at this desk, or through Blackboard if materials are available in digital format.

The Library as Place

The library is an intellectual center to study, engage in research, and share knowledge and insight with others. Various spaces within the Main Library are designed to facilitate group and individual work. The library offers the following:

- The Learning Commons, a state-of-the-art facility offering the largest group of computers on campus, coupled with access to the collections, services, and support offered by the University Libraries;
- Adaptive Technologies which include several workstations on wheelchair accessible tables, and special speech and text magnification software;
- Photocopy Services, self-service machines available throughout the library (machines accept currency, coins, and copy cards);
- Networked Printing Services, computers in the Learning Commons and wireless laptops allow you to print from MS Office suite (Word, Excel, PowerPoint, Access), the Internet, and library databases;
- Group Study Rooms on the Upper Mall in the Main Library can be reserved online with D!Bs (at <http://csueastbay.evanced.info/dibs>) and facilitate work in small groups and the intellectual exchange of ideas through discussion;

- Student Center for Academic Achievement (SCAA) on the Upper Mall offers tutoring primarily in English and Mathematics. For tutoring appointments, visit <http://scaa.csueastbay.edu/>

Concord Campus Library

The branch campus library in Concord is a full-service library, providing reference and instructional assistance, electronic services, and circulation services. The Concord Campus Library provides access to all the resources at the main library through onsite and networked resources. Print materials from the Main Library can be paged for pickup in Concord.

LIBY 200 - Topics in Information Literacy

Units: 3 ; G.E./G.R. Area: E

Discussion on information literacy with rotating topics and disciplinary focus. Theories, methods, and perspectives on selected topics such as information ethics, social justice, data privacy, and information literacy as applied in the disciplines. Requires individual research.

Prerequisites: Sophomore or higher standing and completion of GE Area A2.

Equivalent Quarter Course: LIBY 1210 or LIBY 1551.

Possible Instructional Methods: *Entirely On-line, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F grading only.

G.E./G.R. Area Satisfied: *E - Lifelong Learning and Self-Development*

LIBY 210 - Introduction to Information Literacy Skills

Units: 1 ; G.E./G.R. Area: E

Introduction to basic information literacy skills to assist in research processes. Issues of finding appropriate information sources, critical evaluation, and information ethics will be covered.

Prerequisites: Completion of GE area A2 and Sophomore, Junior or Senior standing.

Credit Restrictions: Not open to students with credit for LIBY 220.

Equivalent Quarter Course: LIBY 1210.

Possible Instructional Methods: *Entirely On-line, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F grading only.

G.E./G.R. Area Satisfied: *E - Lifelong Learning and Self-Development*

LIBY 220 - Information Literacy Skills

Units: 1 ; G.E./G.R. Area: E

Information literacy skills with an emphasis on research in academic context. Issues and skills covered include: search strategies, information evaluation, information ethics, and use of information in research papers and presentations.

Prerequisites: Sophomore or higher standing and completion of GE Area A2.

Credit Restrictions: Not open to students with credit for LIBY 210.

Equivalent Quarter Course: LIBY 1210 or LIBY 1551.

Possible Instructional Methods: *Entirely On-line, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F grading only.

G.E./G.R. Area Satisfied: *E - Lifelong Learning and Self-Development*

College of Business and Economics

College of Business and Economics

25800 Carlos Bee Blvd. Hayward, CA 94542

Valley Business & Technology Center, VBT 447

Office Hours: 8 a.m.-5 p.m., Monday through Friday

(510) 885-4331

Introduction

Established in 1957, the College of Business and Economics serves the whole of the East of the San Francisco Bay Area with classes offered on the main Hayward Campus, the Concord campus, the Oakland Professional Development Center, the San Ramon Valley Conference Center and online via the Cal State East Bay Online Campus.

Mission Statement

CBE provides life-changing, quality business education to prepare students from diverse backgrounds to become successful business professionals and leaders. We aspire to be a leading business school known for making a difference in the lives of our students and for our impact on the world.

George Low, Dean

Eric Fricke, Interim Associate Dean

In support of our mission, we value:

Ethical behavior and personal integrity

Collegiality and mutual respect

Collaboration for learning, scholarship, and community engagement

Social and environmental responsibility

Inclusive learning environment for a diverse student population

Innovative thinking and a global mindset

Expected Outcomes

- Student professional success.
- Innovative academic programs meeting business and professional needs.
- Improvement in student learning based on teaching innovations.
- Intellectual contributions to the body of knowledge in the theory, practice and teaching of business.

Institutes and Centers

Center for Economic Education, Director: Jane E. Lopus

China America Business and Education Center (CABEC), Director: Nancy Mangold

Financial Literacy Center, Director: Jagdish Agrawal

Smith Center for Private Enterprise Studies, Director: Christian Roessler

Accreditation

All degree programs in the College of Business and Economics are accredited by the AACSB International (Association to Advance Collegiate Schools of Business).

Academics

The Business Administration major program is structured around a set of core courses enabling students to develop general business perspective and skills. Students are required to choose an area of specialization (option) corresponding to their desired career path. Each option allows students flexibility to customize their program by choosing option elective courses. The program is designed to encourage students to actively participate in shaping their program to fit their individual needs.

CBE Undergraduate Advising: VBT 129, (510) 885-3323, Email: cbeadvising@csueastbay.edu, Website: csueastbay.edu/cbeadvising

BSBA Online Degree Completion Program Office: VBT 359, 364, and 365, (510) 885-3376, Email: cbe_bsba_online@csueastbay.edu, Website: csueastbay.edu/onlinebusiness

Office of CBE Graduate Programs: VBT 133, (510) 885-2419, Email: cbe_grad@csueastbay.edu, Website: csueastbay.edu/cbe/students/gsssc/index.html, Director : Joanna Lee (VBT 429)

CBE Office of Career & Professional Development: VBT 346, (510) 885-2275, Email: cbecareer@csueastbay.edu, Website: csueastbay.edu/ocpd

Department of Accounting and Finance

The Department Office is located on the 4th floor of the Valley & Business Technology (VBT) building, Room 435

Open Hours: 8:00 am to 5:00 pm Monday through Friday

Dept. Phone: (510) 885-3397

Faculty

Professors

Micah Frankel, Ph.D. University of Arizona

Siu-Kuen Scott Fung, D.B.A. Boston University

Ching-Lih Jan, Ph.D. University of California, Berkeley

Nancy R. Mangold (Chair), Ph.D. University of California, Berkeley

Fung-Shine Pan, Ph.D. University of California, Berkeley

Tammie X. Simmons-Mosley, Ph.D. University of Wisconsin-Madison

Associate Professors

Brian Du, Ph.D. Rutgers University

Eric Fricke, Ph.D. Pennsylvania State University

M. Sinan Goktan, Ph.D. The University of Texas at Dallas

Y. Robert Lin, Ph.D. University of California, Los Angeles

Kim Shima, Ph.D. University of Hawai'i at Manoa

Jing-wen Yang, Ph.D. University of Maryland

John Tan, Ph.D. University of South Florida

Assistant Professors

Ying Guo, Ph.D. University of Hawai'i at Manoa

Pei Hui Hsu, Ph.D. University of Oregon

Robert Loveland, Ph.D. University of Georgia

Our Mission Statement reflects that of our College of Business and Economics

...to provide excellence and innovation in integrating quality teaching and learning, with applied research and relevant experience to a diverse clientele from the San Francisco Bay Area to the Global Community.

We provide an education that will allow students to succeed in a business environment that is characterized by rapid technological advancements; a work force of ethnic, cultural, and gender diversity; demands for continuous improvements in quality and service; demands for continuous individual and organizational learning; and, demands for the understanding and skills needed to practice in global markets.

Our Department strives to maintain a quality program that is responsive to an ever changing environment. The faculty members of our Department combine distinguished academic backgrounds with many years of practical experience in their respective professional areas. Currently, there are 38 faculty members who fill full-time positions augmented by part-time faculty with specialized expertise. These full-time and part-time faculty members are a valuable resource, not just for the University and its students, but also for the surrounding business community.

The Department offers over 100 different courses in accounting, finance, taxation, and real estate courses.

About the Department

Use our university website link to learn more about what the Accounting and Finance Department has to offer.

- Degree Roadmaps
- Faculty & Staff
- Office Hours & Teaching Schedule
- Course Student Learning Outcomes
- Career Development Workshops
- Acct & Fin Career Development Workshops
- And more...

Department of Economics

The Department Office is located on the 4th floor of the VBT building, Room 442.

Hours Open: 8:00 am to 5:00 pm Monday through Friday.

Dept. Phone: 510-885-3265

Faculty

Professors Emeriti

James C. W. Ahiakpor, Ph.D. University of Toronto (Canada)

Gregory B. Christainsen, Ph.D. University of Wisconsin, Madison

Professor

Jed DeVaro (Chair), Ph.D. Stanford University

Associate Professors

Ryan Lampe, Ph.D. Stanford University

Christian Roessler, Ph.D. The University of Melbourne (Australia)

Assistant Professors

Wesley Blundell, Ph.D., University of Arizona

Kai Ding, Ph.D. University of Minnesota

Joseph Kuehn, Ph.D. University of California, Los Angeles

Filippo Rebessi, Ph.D. University of Minnesota

Jung You, Ph.D. Rice University

M.A. Program Director: *Christian Roessler*

Mission Statement

We are proud of our diverse body of students and our vibrant undergraduate and graduate programs in Economics and Business. Our faculty hold PhDs from leading universities and have diverse backgrounds, teaching and research interests. In addition to receiving numerous grants and publishing in major academic journals in Economics, members of our faculty receive consistently high teaching evaluations, and some have been recognized with teaching awards. They also have made intellectual contributions via publications in books and textbooks of general interest, conferences and media presentations, and studies regarding local community issues, as well as refereeing for a variety of academic journals and in some cases serving as editors or on editorial boards. Department faculty currently head the Smith Center for Private Enterprise Studies and the Center for Economic Education. Our scenic campus is geographically located in one of the most dynamic technological, scientific and cultural hubs in the world.

About the Department

Use our university website link to learn more about what the Economics Department has to offer.

- Degree Roadmaps
- Faculty & Staff
- Course Student Learning Outcomes
- News
- Centers and Institutes
- Office Hours & Teaching Schedule
- And more...

Department of Management

The Department Office is located on the 4th floor of the VBT building, Room 435.

Hours Open: 9:00AM to 6:00PM Monday through Friday.

Dept. Phone: (510) 885 - 3307

Faculty

Professors Emeriti

Bijan Mashaw, Ph.D. Clemson University

Kenneth Pefkaros, Ph.D. University of Delaware

Associate Professor Emeritus

Alan P. Goldberg, Ph.D. University of Massachusetts

Professors

Jed DeVaro, Ph.D. Stanford University

Hongwei Du, Ph.D. Florida Institute of Technology

Vishwanath Hegde (Chair), Ph.D. University of Pittsburgh

Yi Karnes, Ph.D. Ohio State University

Xinjian Lu, Ph.D. University of Waterloo, Canada

H. Steven Peng, Ph.D. York University (Canada)

Zinoviy Radovilsky, Ph.D. Scientific Research Institute of Labor (Moscow)

Asha Rao, Ph.D. Temple University

Glen Taylor, Ph.D. York University (Canada)

Gregory Theyel, Ph.D. Clark University

Chongqi Wu, Ph.D. University of Illinois at Urbana-Champaign

Associate Professors

Ekin Alakent, Ph.D. University of Texas at Dallas

Daniel E. Martin, Ph.D. Howard University

Surendra Sarnikar, Ph.D. University of Arizona

T.T. (Rajan) Selvarajan, Ph.D. Arizona State University

Jiming Wu, Ph.D. University of Kentucky

Assistant Professors

Ken Chung, Ph.D. Rutgers University

Izzet Darendeli, Ph.D. Temple University

Mee Sook Kim, Ph.D. Rutgers University

Kaumudi Misra, Ph.D. Michigan State University

Balaraman Rajan, Ph.D. Simon School of Business, University of Rochester

Jyotishka Ray, Ph.D. University of Texas at Dallas

Stephanie Seitz, Ph.D. State University of New York at Buffalo

Lan Wang, Ph.D. University of Florida, Gainesville

Peng Xie, Ph.D. Georgia Institute of Technology

Masahisa Yamaguchi, Ph.D. University of Hawai'i at Manoa

Department Statement

Tough global competition requires companies to be extremely responsive to the needs and expectations of customers. In addition, many companies today are in a period of rapid changes brought about by technological breakthroughs, business globalization, and extended supply chains. In such a time, the role of the manager and the management professional in facing these challenges and maintaining a competitive edge becomes even more important. Our Management options provide students with an

exciting and diverse education in various areas of management including human resource management and organizational behavior, operations and supply chain management, strategy and international business, and information technology management. Past and present employers of our Management students include almost all major firms, and numerous small and mid-size companies in the Bay Area.

About the Department

Use our university website link to learn more about what the Management Department has to offer.

- Office Hours & Teaching Schedule
- Degree Roadmaps
- Faculty & Staff
- Course Student Learning Outcomes
- Department News
- And more...

Department of Marketing

The Department Office is located on the 4th floor of the VBT building, Room 442.

We are open 8:00AM - 6:00PM Monday through Friday.

Dept. Phone: (510) 885 - 3326

Faculty

Professor Emeritus

Jagdish Agrawal, Ph.D. State University of New York at Buffalo

Professors

Stevina Evuleocha, Ph.D. Ohio University

Sweety Law, Ph.D. Ohio State University

C. Joanna Lee (Chair), Ph.D. University of Texas at Austin

George S. Low, Ph.D. University of Colorado, Boulder

Cesar Maloles, Ph.D. City University of New York

Steve Ugbah, Ph.D. Ohio University

Lan Wu, Ph.D. Georgia Institute of Technology

Associate Professor

Yi He, Ph.D. University of Hawai'i

Assistant Professors

Judy Ma, Ph.D. Rensselaer Polytechnic Institute

Joon-Hee Oh, Ph.D. Georgia State University

Ya You, Ph.D. University of Central Florida

Mission Statement

Principal foundations of the Department of Marketing have been and continue to be quality instruction and scholarly activities of the faculty as well as the interaction between and among faculty, students, and the business community. The Department of Marketing fosters community connection and welcomes partnership opportunities that enhance educational experiences of our students.

About the Department

Use our university website link to learn more about what the Marketing Department has to offer.

- Office Hours & Teaching Schedule
- Degree Roadmaps
- Faculty & Staff
- Course Student Learning Outcomes
- And more...

College of Education and Allied Studies

College of Education and Allied Studies

25800 Carlos Bee Blvd. Hayward, CA 94542

Arts & Education Building, AE 111

Office Hours: 8 a.m.-5 p.m., Monday through Friday

(510) 885-3942

Introduction

The College of Education and Allied Studies (CEAS) provides programs that educate and prepare leaders who serve and contribute to the quality of life for individuals and communities. Graduates from CEAS lead schools and school districts as teachers and counselors, school psychologists, and school administrators. Our graduates also organize community park and recreation programs, and manage hotels and restaurants. Other graduates from CEAS become athletic trainers, physical and recreational therapists, and marriage and family therapists. Programs are offered in a variety of formats including activity classes, on-site internships, traditional face-to-face classes, fully on-line courses, and hybrid courses that combine on-line and face-to-face instruction. CEAS also recognizes the need for balance in our lives; therefore, our college provides a full range of physical activity courses from Pilates to swimming, adventure recreation to taekwondo, and volleyball to weight training.

All educator credentials offered by CEAS are accredited by California Commission on Teacher Credentialing (CTC).

Mission Statement

To prepare collaborative leaders committed to professional excellence, social justice and democracy, who will influence a diverse and interconnected world.

Carolyn Nelson, Dean

Patricia Irvine, Associate Dean

Institutes and Centers

Center for Sport and Social Justice (CSSJ) <http://www.csueastbay.edu/cssj/>

Credential Student Services Center (CSSC)

Location (Main Campus): AE 235; Phone: (510) 885-2272

Office Hours: 8:00 a.m. to 5 p.m., Monday - Thursday, Closed Friday

The CSSC provides a range of services to those pursuing credentials, including the following:

- Advising regarding credential requirements in all programs;
- Screening for credential program requirements;
- Housing of student records;
- Monitoring of progress towards credentials;
- Verifying credential program completion;
- Making the official credential recommendation to the Commission on Teacher Credentialing (CTC).

Department of Educational Leadership

The Department Office is located on the 2nd Floor of the AE building, Room 250

Hours Open: 8:30 am to 5:00 pm Monday through Friday

Dept. Phone: (510) 885-4145

Faculty

Professor Emeritus

José A. López, Ph.D. University of North Texas

Professors

Gilberto Arriaza, Ph.D. University of California, Berkeley

Eric Haas, Ph.D. Arizona State University

Peg Winkleman (Chair), Ph.D. University of California, Berkeley

Associate Professor

Ardella J. Dailey, Ed.D. University of California, Berkeley

Assistant Professors

Mariama Smith Gray, Ph.D. University of California, Davis

Kathryn Hayes, Ph.D. University of California, Davis

Gerald Reyes, Ph.D. University of California, Berkeley

Kathryn Strom, Ed.D. Montclair State University

Mission Statement

The mission of the Department of Educational Leadership at CSUEB is to prepare and influence bold, socially responsible leaders who will transform the world of schooling. Our central role is to ignite the leadership capacity needed to create vital, democratic and caring places for powerful teaching and learning.

About the Department

Use our university website link to learn more about what the Educational Leadership Department has to offer.

- Resources
- Partnerships
- e-Learning
- Community Outreach
- Center for Research, Equity & Collaborative Engagement (CRECE)
- Credential Student Services Center (CSSC)
- And more...

Department of Educational Psychology

The Department Office is located on the 2nd Floor of the AE building, Room 250.

Hours Open: 8:30 am to 5:00 pm Monday through Friday.

Dept. Phone: (510) 885-3011

Faculty

Professors

John M. Davis (Chair), Ph.D. University of California, Berkeley

R. Greg Jennings, Ph.D. University of California, Berkeley

Linda Smetana, Ed.D. Brigham Young University

Terry Soo-Hoo, Ph.D. University of California, Berkeley

Oanh Kim Tran, Ph.D. University of Oregon

Associate Professor

Janet P. Logan, Ph.D. University of Wyoming

Assistant Professors

Meaghan McCollow, Ph.D., University of Washington

Zachary Pietrantoni, Ph.D. Southern Illinois University

Graduate Coordinators:

- *M.S. in Special Education*
Linda Smetana (Mild-Moderate Disabilities)
- *M.S. Counseling*
Greg Jennings (School Psychology)
Nancy Deatrick (Marriage and Family Therapy)

Mission Statement

The mission of the Department of Educational Psychology is to prepare a diverse population of students as professional counselors, psychologists, special education specialists, and researchers for effective and innovative work in a variety of settings, including schools, agencies, hospitals, and industry.

About the Department

Use our university website link to learn more about what the Educational Psychology Department has to offer.

- Info Sessions
- Roadmaps
- Faculty
- Credential Student Service Center
- And more...

Department of Hospitality, Recreation and Tourism

The Department Office is located on the 1st Floor of the PE building, Room 130.

Hours Open: 8:00 am to 5:00 pm Monday through Friday.

Dept. Phone: (510) 885-3043

Faculty

Professors

Christopher Chamberlain (Chair), D.M. University of Phoenix

Mary F. Fortune, Ed.D. University of San Francisco

Zaher Hallab, Ph.D. Virginia Polytechnic Institute and State University

Doris D. Yates, Ph.D. Michigan State University

Associate Professors

Nancy B. White, Ph.D. University of New Mexico

Assistant Professors

Saehya Ann, Ph.D. Texas Tech University

Erick Kong, Ed.D. Alliant University

Thomas Padron, Ph.D. Capella University

Heather Vilhauer, Ed.D. University of San Francisco

Semih Yilmaz, Ph.D. University of Florida

Lecturers

Kenneth L. Hanley, M.S. California State University, Hayward

Margaret Zeiger, M.S. Golden Gate University

Janeen Hill, M.S. Guelph University (Canada)

Lisa Smusz, M.F.T. California State University, East Bay

Mission Statement

Our mission is to educate and prepare leaders who contribute to the quality of life of individuals and our communities, both locally and globally, through Hospitality, Recreation and Tourism.

About the Department

Use our university website link to learn more about what the Hospitality, Recreation, and Tourism Department has to offer.

- Student Toolbox
- Resources and Opportunities
- News & Events
- Advising
- And more...

Department of Kinesiology

The Department Office is located on the 1st Floor of the PE building, Room 130.

Open Hours: 8:00 am to 5:00 pm Monday through Friday.

Dept. Phone: (510) 885-3061

Faculty

Professor Emerita

Penny McCullagh, Ph.D. University of Wisconsin

Professors

Rebecca Beal, Ed.D. University of Northern Colorado

Paul Carpenter (Chair), Ph.D. University of California, Los Angeles

Rita M. Liberti, Ph.D. University of Iowa

Jeffery P. Simons, Ph.D. University of Illinois, Urbana-Champaign

Associate Professors

Matthew Atencio, Ph.D. University of Wollongong (Australia)

ZáNean D. McClain, Ph.D. Oregon State University

Catherine Inouye, Ed.D. University of Northern Colorado

My Phung (Jenny) O, Ph.D. University of Western Ontario (Canada)

Vanessa R. Yingling, Ph.D. University of Waterloo (Canada)

Assistant Professors

Bradford Bennett, Ph.D. Stanford University

Albert Mendoza, Ph.D. University of Massachusetts, Amherst

Jennifer Sherwood, Ph.D. Marquette University

Elizabeth (Missy) Wright, Ph.D. Michigan State University

Graduate Coordinator: Catherine Inouye

Mission Statement

Kinesiology is the discipline related to the scholarly study of sport, exercise and related activities from anatomical, biomechanical, developmental, physiological, psychological, sociological, philosophical and historical perspectives. Our mission is to prepare graduates who are knowledgeable, professional, and take a multidisciplinary approach to promoting physical activity.

About the Department

Use our university website link to learn more about what the Kinesiology Department has to offer.

- Center for Sport and Social Justice
- American Kinesiology Association
- Faculty
- Current News
- And more...

Department of Teacher Education

The Department Office is located on the 2nd Floor of the AE building, Room 250.

Open Hours: 8:30 am to 5:00 pm Monday through Friday.

Dept. Phone: (510) 885-3028

Faculty

Professors Emeriti

Bijan B. Gillani, Ed.D. University of Southern California

Shira Lubliner, Ed.D. University of San Francisco

James J. Zarrillo, Ph.D. Claremont Graduate School

Professors

Li-Ling Chen, Ph.D. University of Texas at Austin

Eric Engdahl (Chair), Ph.D. University of California, Los Angeles

Denise M. Fleming, Ph.D. University of California, Berkeley

Patricia D. Irvine, Ph.D. University of New Mexico

James M. Mitchell, Ph.D. University of Minnesota, Minneapolis

Carolyn Nelson, Ed.D. University of San Francisco

Lettie Ramirez, Ph.D. University of Texas at Austin

Associate Professors

Valerie A. Helgren-Lempesis, Ed.D. University of Miami

Michele Korb, Ph.D. Marquette University

Assistant Professors

Talya Kemper, Ph.D. University of Washington

Julie McNamara, Ph.D. University of California, Berkeley

Shadi Roshandel, Ph.D. University of California, Santa Barbara

Lyn Scott, Ph.D. University of California, Berkeley

Mary Soto, Ed.D. University of Texas at Brownsville

Mission Statement

We prepare teachers who are dedicated to the academic achievement of all students, and who demonstrate a commitment to life-long, professional growth and school leadership. The Department of Teacher Education offers post-baccalaureate and graduate programs to prepare teachers who are committed to improving school practices for California's diverse student populations and who can model such practices in their own classrooms.

About the Department

Use our university website link to learn more about what the Teacher Education Department has to offer.

- edTPA
- Scholarships
- Department Initiatives
- Information Sessions
- Credential Student Service Center (CSSC)
- And more...

College of Letters, Arts, and Social Sciences

College of Letters, Arts, and Social Sciences

25800 Carlos Bee Blvd, Hayward, CA 94542

Music Building, MB 1501

Office Hours: 8 a.m.-5 p.m., Monday through Friday

(510) 885-3161

Introduction

The College of Letters, Arts, and Social Sciences (CLASS) is a world of many activities that involve thousands of students and hundreds of faculty, as well as guest performers, artists, and lecturers. In addition to traditional academic departments, the College includes galleries, institutes, centers, and museums, and its activities span scholarship and research, community outreach, and performance. CLASS is a collection of distinctly individual departments, majors, and faculty experts, featuring an enormous array of courses and degree programs, in addition to scores of activities for both the on-campus student and the community.

Mission Statement

The College of Letters, Arts, and Social Sciences is committed to educational engagement through theory and practice, which enables our students to enhance their understanding and appreciation of the human condition, diverse cultures and values, the natural world, and their own communities. CLASS students graduate with the foundation to be ethical and productive individuals, effective citizens, and informed participants in a global society.

Kathleen Rountree, Dean

Pat Jennings, Interim Associate Dean

Institutes and Centers

School of Arts and Media

School of Global Humanities and Cultural Studies (*Website Under Construction*)

Friends of the Arts, Kristin Loheyde, Director of Development, (510) 885-4035, EMAIL: kristin.loheyde@csueastbay.edu

CLASS Student Services Center (SSC), Eric Cheatham, Lead Coordinator.,
EMAIL: class_ssc@csueastbay.edu

Services provided by CLASS SSC include:

- providing students with information about all programs in CLASS,
- connecting students to departments in CLASS and other campus units outside CLASS,
- advising and helping students to identify and solve problems concerning courses, contacts, appropriate forms and procedures, and other issues confronting the students,
- assisting students with academic administration paper work, such as late add, late drop, and late withdrawal petitions.

Department of Anthropology, Geography and Environmental Studies

Department Office location on the 2nd Floor of the Robinson Hall building, Room 220

Open Hours: 8:00 a.m. to 5:00 p.m., Monday through Friday

Dept. Phone: (510) 885-3193

Faculty

Professors

Karina Garbesi, Ph.D. University of California, Berkeley

David Larson (Chair), Ph.D. University of California, Berkeley

Michael Lee, Ph.D. London School of Economics (England)

Gary Li, Ph.D. State University of New York at Buffalo

Andrew Wong, Ph.D. Stanford University

Associate Professors

William Henry Gilbert, Ph.D. University of California, Berkeley

David Woo, Ph.D. University of California, Santa Barbara

Assistant Professor

Albert Gonzalez, Ph.D. Southern Methodist University

Welcome

If you are interested in undergraduate studies in Anthropology, Geography and the Environment, we welcome your visit and encourage you to browse our site. Please contact us directly if you have unanswered questions or would like an informational interview in person or by telephone.

About the Department

Use our university website link to learn more about what the Anthropology, Geography, and Environmental Studies Department has to offer.

- Programs
- Faculty Info and Office Hours
- Museums, Labs, and Projects
- Degree Roadmap
- Alumni
- And more...

Department of Art

The Department Office is located in the Arts & Education building, Room 1233.

Open 8:00 a.m. - 5:00 p.m., Monday - Thursday, closed Fridays.

Dept. Phone: (510) 885-3111

Faculty

Professor Emerita

Grace Munakata, M.F.A. University of California, Davis

Professors

Michael Henninger, M.F.A. California College of Arts and Crafts

Scott H. Hopkins, M.F.A. University of Arizona

Gwyn Rhabyt (Chair), M.F.A. California College of Arts and Crafts

Suzy Wear, M.A. California State University, Hayward

Associate Professor

Janet Green, M.A. California State University, East Bay

Assistant Professors

Michael Hall, M.F.A Mills College

Ian Pollock, M.F.A. University of California, Berkeley

Jessica Santone, Ph.D. McGill University (Canada)

Department Statement

Courses in the Department of Art develop students' perceptual skills, their access to the imagination, and their ability to think critically and independently. Instruction in the use of art materials and specific art and design techniques and methods, enables students to create original works of art and design reflecting their evolving vision. Our program also fosters a broad cultural awareness of visual arts and design practices in society. Graduating majors should be able to clearly express their ideas about creating art and design. In addition, their grasp of historical and contemporary aesthetic issues should inform their own work. We offer excellent facilities, small classes taught by a distinguished faculty, space to work, and field trips to museums, galleries, and artists' studios.

About the Department

Use our university website link to learn more about what the Art Department has to offer.

- Advising
- Office Hours
- Degree Roadmaps
- University Art Gallery
- Graphic Design/Multimedia Blog
- And more...

Department of Communication

The Department Office is located on the 3rd Floor of the Meiklejohn Hall building, Room 3011.

Open 8:00 a.m. - 5:00 p.m., Monday through Friday.

Dept. Phone: (510) 885-3292

Faculty

Professors

Edward S. Inch, Ph.D. University of Washington

Grant Kien, Ph.D. University of Illinois at Urbana-Champaign

Associate Professors

Katherine M. Bell, Ph.D. University of Washington

Lonny J. Brooks, Ph.D. University of California, San Diego

Mary Cardaras (Chair), Ph.D. Northeastern University

Yung-I Liu, Ph.D. Ohio State University

Terry L. West, Ph.D. Southern Illinois University (FERP)

Assistant Professors

Anita Chang, Ph.D. University of California, Santa Cruz

William Lawson, Ph.D. Florida State University

Mission Statement

Graduates will be able to make a positive, professional, and important contribution in the field of communication (Media Environments; Organizational Contexts; and Graduate School) by becoming inclusive, ethical, and effective leaders and participants in global and local communities.

About the Department

Use our university website link to learn more about what the Communication Department has to offer.

- Scholarships
- Faculty Profiles
- Activities & Organizations
- Media
- The Pioneer Online
- Pioneer Web TV
- School of the Arts and Media
- Advising
- And more...

Department of Criminal Justice

The department office is located on the 4th Floor, in the Student and Faculty Services (SF) building, Room 402.

The department is open during regular business hours: 8:00 a.m. - 5:00 p.m., Monday thru Friday

Dept. Phone: (510) 885-3590

Faculty

Professors

Silvina Ituarte, Ph.D. Rutgers University

Dawna Komorosky (Chair), Ph.D. Indiana University of Pennsylvania

Associate Professors

Keith Inman, M.Crim. University of California, Berkeley

Assistant Professors

Summer Jackson, Ph.D. University of Oklahoma

Cory Lepage, Ph.D. University of California, Riverside

Sanjay Marwah, Ph.D. George Mason University

Amanda Matravers, Ph.D. University of Cambridge (United Kingdom)

Michelle Rippy, MFS National University

Department Statement

The Department of Criminal Justice, established in 1976, offers an undergraduate program leading to a degree of Bachelor of Science, as well as a minor, in Criminal Justice. The undergraduate program is designed for the academic development of knowledge and understanding of practices, theories, and concepts of justice administration, as well as to prepare students for professional careers in justice administration, law enforcement, corrections, and graduate studies.

About the Department

Use our university website link to learn more about what the Criminal Justice Department has to offer.

- Degree Roadmap
- Advising
- Alumni
- Faculty Profiles
- Department News
- And more...

Department of English

The Department office is located in the Music and Business building, Room 2579

Office Hours: 8:00 a.m. - 5:00 p.m., Monday through Friday

Dept Phone: (510) 885-3282

Faculty

Professors Emeriti

Eileen A. Barrett, Ph.D. Boston College

Jacqueline Doyle, Ph.D. Cornell University

Susan A. Gubernat, M.F.A. University of Iowa

E.J. Murphy, Ph.D. University of Illinois

Associate Professor Emerita

Eve M. Lynch, Ph.D. University of California, Davis

Professors

Dennis M. Chester, Ph.D. University of Washington

Stephen D. Gutierrez, M.F.A. Cornell University

Sarah E. Nielsen (Chair), Ph.D. University of California, Davis

Ke Zou, Ph.D. University of Southern California

Associate Professor

Margaret Tomlinson-Rustick, Ph.D. Washington State University

Assistant Professors

Christine Gottlieb, Ph.D. University of California, Los Angeles

Ryan Heryford, Ph.D. University of California, San Diego

Douglas Taylor, Ph.D. University of North Carolina, Chapel Hill

Lecturers

Cynthia Andrzejczyk

Sartaz Aziz

Scott Bentley

Sally Baxter

Mary D'Alleva

Ingrid Hufgard

Dale Ireland

Aaron Jason

Rochelle Nameroff

Michael Rovasio

Marina Sapozhnikov

Jeff Scott

Paul White

Graduate Coordinator: Eve Lynch

Graduate TESOL Coordinator: Ke Zou

Director of Creative Writing: Stephen D. Gutierrez

Composition Coordinator: Margaret Tomlinson-Rustick

Department Statement

The Department of English offers its diverse student population a rich array of courses in literature, language, creative writing, and composition. The department attempts to foster in its students an understanding and appreciation of 1) the major works of British and American literature, including works by and about ethnic and cultural minorities and women, 2) the history and structure of the English language in all its variety, and 3) the aims and processes of writing, both creative and critical. In all its courses, the department attempts to help its students develop the advanced skills in reading, writing, and critical thinking necessary for successful careers in teaching, publishing, law, administration, and business.

About the Department

Use our university website link to learn more about what the English Department has to offer.

- Writing Programs
- Arroyo Literary Review
- Occam's Razor
- Distinguished Writers Program
- Awards and Prizes
- And more...

Department of Ethnic Studies

The Department Office location is on the 4th Floor of the Meiklejohn Hall building, Room 4094

Office Hours: 9:00 a.m. - 6:30 p.m. M & Th, T & W 8:00 a.m.-5:00 p.m., Closed Fridays

Dept Phone: (510) 885-3255

Faculty

Professors

Nicholas Baham, III, Ph.D. Indiana University, Bloomington

Luz Calvo, Ph.D. University of California, Santa Cruz

Enrique Salmon, Ph.D. Arizona State University

Carlos Salomon (Chair), Ph.D. University of New Mexico

Assistant Professor

Anndretta Wilson, Ph.D. University of California, Los Angeles

Director: Carlos Salomon

Mission Statement

The mission of the Department of Ethnic Studies is to provide an academically rigorous program that substantively contributes to the University's public commitment to provide a multicultural learning experience. Our comparative and interdisciplinary program covers five core areas: African American Studies; American Indian Studies; Asian American Studies; Latino/a and Latin American Studies; and Gender/Sexualities in Communities of Color. In our courses, we teach students to analyze social relations of race, class, gender, and sexuality; develop nuanced understandings of social justice; and act as socially responsible global citizens.

About the Department

Use our university website link to learn more about what the Ethnic Studies Department has to offer.

- Scholarships
- Roadmaps
- Advising
- Department News
- And more...

Department of History

The Department Office is located on the 4th Floor of the Student and Faculty Services building, Room 442

Office Hours: 8:00 a.m. - 5:00 p.m., Monday through Friday

Dept Phone: (510) 885-3207

Faculty

Professor Emerita

Dee E. Andrews, Ph.D. University of Pennsylvania

Professors

Bridget Ford, Ph.D. University of California, Davis

Richard A. Garcia, Ph.D. University of California, Irvine

Linda Ivey (Chair), Ph.D. Georgetown University

Jessica Weiss, Ph.D. University of California, Berkeley

Associate Professors

Vahid Fozdar, Ph.D. University of California, Berkeley

Robert A. Phelps, Ph.D. University of California, Riverside

Assistant Professors

Anna Alexander, Ph.D. University of Arizona

Kevin Kaatz, Ph.D. Macquarie University, Sydney (Australia)

Elizabeth McGuire, Ph.D. University of California, Berkeley

Casey Nichols, Ph.D. Stanford University

Graduate Coordinator: Kevin Kaatz

Department Statement

The History programs at Cal State East Bay seek to present the study of History as an enjoyable and fruitful endeavor incorporating the essential elements of liberal learning. The programs focus on students' acquisition of knowledge, cultivation of perspective, and development of skills in written and oral communication and in critical thinking. We aim to develop students' concern for enduring human values and appreciation of diverse peoples and traditions, as well as to engage students in a rigorous and compelling understanding of how the past informs the present.

About the Department

Use our university website link to learn more about what the History Department has to offer.

- Advising
- Scholarships
- Public History
- History Student Association
- Resources
- Department News
- And more...

Department of Human Development and Women's Studies

The Department Office is located on the 3rd Floor of the Meiklejohn Hall building, Room 3069

Office Hours: 8:00 a.m. - 5:00 p.m., Monday through Friday

Dept Phone: (510) 885-3076

Faculty

Professor Emeritus

Jiansheng Guo, Ph.D. University of California, Berkeley

Professors

Steve Borish, Ph.D. Stanford University

Christina Chin-Newman, Ph.D. University of California, Santa Cruz

Lynn Comerford, Ph.D. State University of New York at Albany

Keri K. O'Neal (Chair), Ph.D. Texas Tech University

Associate Professors

Patricia Drew, Ph.D. University of California, Santa Barbara

D. Xeno Rasmusson, Ph.D. University of Georgia

Rachael Stryker, Ph.D. University of California, Berkeley

Assistant Professor

Mariana Guzzardo, Ph.D. University of Connecticut

Mission Statement

Human Development is an interdisciplinary program that integrates theory and methodology from disciplines such as anthropology, biology, linguistics, psychology, and sociology. Students majoring in Human Development explore the processes and mechanisms underlying developmental change and stability across the lifespan, and the sociocultural and historical contexts in which development takes place. The program's curriculum equips students with basic understanding of major research findings and core concepts in human development, the ability to critically analyze and evaluate theoretical and practical issues in the field, and the skills to apply their learning to diverse communities outside the university. The program strives to create an optimal learning community which values and fosters mutual learning and dialogue between and among students and faculty from diverse backgrounds.

The Mission of California State University, East Bay's Women's Studies Program is to provide undergraduate students minoring in Women's Studies with a culturally sensitive introduction to the research, literature, and methodologies of gender/Women's Studies within, social, and economic perspectives, taught by an interdisciplinary diverse faculty committed to the Program Outcomes, in order to achieve a basic understanding of local, regional, national, and global power relations and how those relationships affect issues of gender/women contemporarily and historically.

About the Department

Use our university website link to learn more about what the Human Development and Women's Studies Department has to offer.

- [Advising](#)
- [Department News](#)
- [Degree Roadmap](#)
- [Faculty Profiles](#)
- [And more...](#)

Department of Modern Languages and Literatures

The Department Office is located in the Student & Faculty Support (SF) building, Room 442

Office Hours: 8:00 a.m. - 5:00 p.m., Monday through Friday

Dept. Phone: (510) 885-3211

Faculty

Professor Emerita

L. Iliana Holbrook, Ph.D. University of California, Davis

Professors

Amy June Rowley, Ph.D. University of Wisconsin- Milwaukee

Meiling Wu (Chair), Ph.D. State University of New York at Binghamton

Associate Professors

Marcelo Paz, Ph.D. University of Cincinnati

Jesús Díaz-Caballero, Ph.D. University of Pittsburgh

Monique Manopoulos, Ph.D. University of Iowa

Lecturers

Juergen Hahn, Ph.D. Duke University

Shiori Hoke-Greller, M.A. San Francisco State University

David Fair, MDiv. Gateway Seminary

Huitzu Lu, Ph.D. University of Arizona

Gaelle Corvaisier, Ph.D. University La Sorbonne, Paris-France

Rie Hannon, M.A. Texas Tech University

Nancy Shuguli, M.A. Sonoma State University

Maria Del Mar Thomas, M.A. New Mexico State University

American Sign Language Coordinator: Amy June Rowley

Chinese & Japanese Coordinator: Meiling Wu

French Coordinator: Monique Manopoulos

Spanish Coordinator: Marcelo Paz

Department Statement

The Department of Modern Languages and Literatures (MLL) offers diverse courses in language, literature, cinema, culture. The rich array of courses are in American Sign Language, Chinese, French, Japanese, Spanish, and in English. The study leads to a Bachelor of Arts degree with majors in French and Spanish; Academic minors are available in American Sign Language, Chinese Language and Cultural Studies, French, Japanese, and Spanish. Students may utilize all languages and literatures courses offered in the department as part of a special major in various areas of study. The department faculty come from a wide variety of national and academic backgrounds and have traveled extensively in the countries whose languages they are teaching. Professors have lectured and published extensively in the United States, Asia, Europe and Latin America.

Language Laboratory

Currently, the Department of Modern Languages and Literatures does not have a language laboratory; however, the University Library has audio and video tape collections of instructional programs in the languages currently taught, including American Sign Language. This temporary facility is located at Media, Resources and Reserves in the library.

About the Department

Use our university website link to learn more about what the Modern Languages and Literatures Department has to offer.

- Achievements
- Facts
- Placement

- Beyond the Classroom
- Scholarships
- Partnerships
- And more...

Department of Music

Department Office location in the Music and Business building, Room 2571

Open Hours: 8:00 a.m. - 5:00 p.m., Monday through Friday

Dept Phone: (510) 885-3135

Faculty

Professors

Rafael Hernandez, D.M. Indiana University

Buddy O. James (Chair), D.M.A. University of Southern California

Kathleen Rountree, D.M. The Florida State University

Associate Professors

John Eros, Ph.D. The University of Michigan, Ann Arbor

Peter K. Marsh, Ph.D. Indiana University

Assistant Professors

Danielle Gaudry, D.M.A. University of Cincinnati

Omri Shimron, D.M.A. Eastman School of Music

Ines Thiebaut, Ph.D. City University of New York, Graduate Center

Graduate Coordinator: Peter K. Marsh

Mission Statement

The mission of the Department of Music is to offer all students outstanding musical and educational experiences within a nurturing and collegial environment. These experiences provide opportunities for

personal and professional enrichment by developing a greater appreciation for and understanding of the art of music. Through performance, creative activity, research, scholarship and teaching, students are prepared for careers as performers, composers, teachers and independent scholars, and for advanced study.

About the Department

Use our university website link to learn more about what the Music Department has to offer.

- Auditions
- Scholarships
- News and Events
- Resouces
- School of Arts and Media
- Facebook Page
- And more...

Department of Philosophy and Religious Studies

The Department Office is located on the 4th Floor of the Student and Faculty Services building, Room 442

Office Hours: 8:00 a.m. - 5:00 p.m., Monday through Friday

Phone: (510) 885-3225

Faculty

Professors

Jennifer L. Eagan, Ph.D. Duquesne University

Christopher M. Moreman (Chair), Ph.D. University of Wales, Lampeter

Associate Professor

Barbara Hall, Ph.D. University of Arizona, J.D. DePaul University Law School

Assistant Professor

Craig Derksen, Ph.D. University of Maryland

Department Statement

The Philosophy and Religious Studies Department at California State University, East Bay seeks to promote the exploration of enduring human concerns - concerns, for example, about the nature of knowledge, ethics, truth, and God. In addition to emphasizing classical philosophy, the department encourages students to think critically about contemporary debates, particularly in the areas of law, human rights and social justice; science, technology, and values; and religion. We strive to instill in our students lifelong habits of questioning, of exploring views contrary to their own, and of engaging in reasoned and honest dialogue. By our focus on analysis, comprehension and communication, we aim to develop qualities that are essential to personal fulfillment, civic responsibility, and career success.

About the Department

Use our university website link to learn more about what the Philosophy and Religious Studies Department has to offer.

- Cal State East Bay Philosophy Society
- Reflections
- Alumni Profiles
- Faculty Profiles
- Social Media Links
- And more...

Department of Political Science

The Department Office is located on 4th Floor of the Student & Faculty Support building, Room 402

Office Hours: 8:00 a.m. - 5:00 p.m., Monday through Friday

Dept Phone: (510) 885-3221

Faculty

Professor Emeritus

David Sadofsky Baggins, Ph.D. Syracuse University

Professor

Kim Geron, Ph.D. University of California, Riverside

Associate Professors

Elizabeth Bergman (Chair), Ph.D. Claremont Graduate University

Maria C. Ortuoste, Ph.D. Arizona State University

Assistant Professors

Amy Below, Ph.D. University of Southern California

Jeremiah Garretson, Ph.D. Vanderbilt University

Danvy Le, Ph.D. University of California, Irvine

Department Statement

The Department of Political Science offers a B.A. degree that gives both a strong background in social science and excellent professional preparation. The major offers three distinct paths to completion, the traditional major and options in pre-law and public affairs and administration. The two options offer interdisciplinary pre-professional curricula. The department is strong in every aspect of American government (national, state, and local institutions, public policy, public law, and public administration), as well as Comparative Politics in international relations. Political Science majors learn to be strong writers, public speakers, and researchers. Opportunities are also offered to learn advanced social science methodology and practical political skills, as well as to participate in faculty research. Students receive assistance in finding - and credit for completing - local, state, and national internships. Graduating seniors report very high levels of satisfaction with the major, and the number of Political Science majors continues to grow.

About the Department

Use our university website link to learn more about what the Political Science Department has to offer.

- [Advising](#)
- [Faculty Profiles](#)
- [Degree Roadmaps](#)
- [Scholarships](#)
- [Reference Links](#)
- [Spotlights](#)
- [Model United Nations](#)
- [And more...](#)

Department of Public Affairs and Administration

The Department Office is located on the 4th Floor of the Meiklejohn Hall building, Room 4122/4128

Office Hours: 8:00 a.m. - 5:00 p.m., Monday through Friday

Dept Phone: (510) 885-3282

Faculty

Professors

Jennifer L. Eagan, Ph.D. Duquesne University

Toni E. Fogarty, Ph.D. University of California, Berkeley

O. Jombo ("Jay") Umeh (Chair), Ph.D. Texas Tech University

Associate Professor

Michael Y. Moon, Ph.D. Teachers College, Columbia University

Assistant Professors

Nicole Diggs, Ph.D. Florida Atlantic University

Joyce Keyes Williams, Ph.D. State University of New York

Institute for Governmental Research and Training: Toni E. Fogarty (Director)

Department Statement

Public Administration is a rich and challenging multi-disciplinary field drawing from sociology, anthropology, philosophy, psychology, economics, and urban and organizational studies. The master's degree program provides students with a grounding in major philosophical and social science thinking about the nature of organizations; it helps students to build the intellectual and practical tools they will need to become effective organizational leaders in the public and non-profit sectors. The M.P.A. program is designed to increase the personal and professional effectiveness of people working in public, voluntary, and private organizations. The purpose of the program is to prepare individuals for leadership positions in various organizations with a sense of commitment to social purpose, the public interest, and effective public problem-solving.

The MS-HCA program seeks to develop professionals who understand how to manage non-profit, for-profit, and voluntary health care organizations in effective and innovative ways. The program focuses on the need for health care administrators to be continuous learners, critical thinkers, and ethical practitioners by recognizing the multiply-constructed nature of human, social, and organizational realities and the complex relationships between the system of health providers and the needs of the community.

About the Department

Use our university website link to learn more about what the Public Affairs and Administration Department has to offer.

- Forms
- Employment & Internships
- Scholarships
- Survival Tips
- News
- Helpful Links
- And more...

Department of Social Work

The Department Office is located on the 4th Floor in the Meiklejohn Hall building, Room 4064

Office Hours: 8:00 a.m. - 5:00 p.m., Monday through Friday

Dept Phone: (510) 885-4916

Faculty

Professor Emerita

Dianne Rush Woods, Ph.D. University of California, Berkeley (LCSW, MPH)

Professor

Holly Danforth Vugia, Ph.D. University of California, Berkeley, (LCSW, PPSC)

Associate Professors

Toni Naccarato, Ph.D. University of California, Berkeley (MSW)

Sarah Taylor, Ph.D. University of California, Berkeley (MSW)

Rose Wong (Chair), Ph.D. University of California, Berkeley (LCSW, MPA)

Assistant Professors

Kristen Gustavson, Ph.D. University of California, Berkeley (LCSW)

Macheo Payne, Ed.D. San Francisco State University (MSW)

Department Statement

The Department of Social Work offers instruction at the graduate level to a diverse multicultural and multiracial student population, leading to the Master of Social Work (MSW) degree. Through teaching, advising and the field experience, MSW faculty members promote a sense of activism, social justice, commitment to change, and a vision of professional competence for students admitted to the program. The CSUEB MSW degree focuses on urban social work practice with vulnerable and/or oppressed populations. The two-year program requires 60 units of coursework. There are two concentrations of choice: Children, Youth and Families or Community Mental Health. Within the program of study, students engage in both academic classes and field experience. This melding of coursework and field experience prepares students for effective social work practice in today's increasingly diverse, complex multicultural and multiracial society.

About the Department

Use our university website link to learn more about what the Social Work Department has to offer.

- Applying to MSW
- Alumni Association
- Scholarships
- Student Associations
- And more . . .

Department of Sociology

The Department Office is located on the 3rd Floor of the Meiklejohn Hall building, Room 3095

Office Hours: 8:00 a.m. - 5:00 p.m., Monday through Friday

Dept Phone: (510) 885-3173

Faculty

Professor Emeritus

Efren N. Padilla, Ph.D. Michigan State University

Professors

Patricia Jennings, Ph.D. University of Kentucky

Carl Stempel (Chair), Ph.D. University of Oregon

Associate Professors

Julie Beck, Ph.D. University of California, Santa Cruz

Will L. Johnson, Ph.D. University of California, Berkeley (FERP)

Assistant Professors

Duke Austin, Ph.D. University of Colorado at Boulder

Donovon Ceaser, Ph.D. Louisiana State University

Natalie Ingraham, Ph.D. University of California, San Francisco

Sukari Ivester, Ph.D. University of Chicago

Jean Lin, Ph.D. University of Chicago

Mission Statement

The mission of the B.A. program in Sociology is to provide a stimulating and nurturing learning atmosphere for a highly diverse group of students. The program seeks to have students develop and express a love of learning and a respect for a wide range of intellectual perspectives, including a variety of theories and scientific methodologies. We are dedicated to providing students with tools and opportunities to critically examine social life, including a wide range of social problems. Students learn about the workings of social institutions, patterns of group life, social change, and the social causes and consequences of human behavior.

About the Department

Use our university website link to learn more about what the Sociology Department has to offer.

- Faculty Office Hours
- Faculty Profiles
- Degree Progress Roadmap
- Thinking About Sociology?
- Career Guide
- Professional Resources
- Sociology Honor Society: Alpha Kappa Delta
- Faculty Employment
- Department News & Events

Department of Speech, Language, and Hearing Sciences

Department Office is located in the Music & Business building, Room 1099

Office Hours: 8:00 a.m. - 5:00 p.m., Monday through Friday

Dept Phone: (510) 885-3233

Faculty

Associate Professors

Elena Dukhovny, Ph.D. University of California, Berkeley/San Francisco State University

Shubha P. Kashinath (Chair), Ph.D. Florida State University

Assistant Professors

Katrina Nicholas, Ph.D. University of Arizona

Pradeep Ramanathan, Ph.D. University of Minnesota

Mission Statement

The Department of Speech, Language, and Hearing Sciences provides students pre-professional and professional training in speech-language pathology and audiology, which is founded on state and national standards, evidence-based practice, research, and science and technology, to prepare them to serve persons with communication disorders and their families in an ethical and culturally competent manner.

About the Department

Use our university website link to learn more about what the Speech, Language, and Hearing Sciences Department has to offer.

- Accreditation
- Instructional Labs
- Forms
- Resources
- NSSLHA
- And more . . .

Department of Theatre and Dance

Department Office located in the 2nd Floor of the Robinson Hall building, Room 220

Open hours 8:00 a.m. - 5:00 p.m., Monday through Friday

Dept. Phone: (510) 885-3118

Faculty

Professor Emeritus

Thomas C. Hird, M.F.A. University of California, Los Angeles

Professors

Darryl V. Jones (Chair), M.F.A. The Boston University School of Theatre Arts

Ann Fajilan, M.F.A. University of California, Davis

Nina O. Haft, M.F.A. University of Wisconsin

Rhoda Helfman Kaufman, Ph.D. University of California, Berkeley

Marc Jacobs, M.F.A. California State University, Long Beach

Eric Kupers, M.F.A. University of California, Davis

Assistant Professor

Richard Olmsted, M.F.A. Carnegie Mellon University

Lecturers

Ulises Alcala, M.F.A. University of Massachusetts, Amherst

Laura Ellis, M.F.A. Mills College

Kimiko Guthrie, M.F.A. Mills College

Mission Statement

Theatre and Dance, as performing arts, provide a spark that transforms a person into a lifelong student. Across the campus we offer opportunities for participation both in production and in critical examination that help students to discover, accept, and express themselves as active, enlightened persons, and to know and appreciate the work and values of others. To succeed in their performances, students master world history as well as the theories of art and esthetics by use of the everyday practices of the liberal arts, including research, writing, figuring, reasoning, and experimentation. They learn practical, usable skills. Students experience the problems of making choices while on stage and off. They learn to recognize the connection between art and life, as well as to discover their own capacities to make choices as citizens, as creators of art, and as directors of their lives.

About the Department

Use our university website link to learn more about what the Theatre and Dance Department has to offer.

- School of Arts and Media
- Degree Roadmaps
- Auditions
- Performance Fusion
- Performance Season
- Anyone Can Get Involved (open casting)
- Alumni
- Social Media Links
- And more...

Liberal Studies Program

The Liberal Studies Program's Office is located on the 4th floor of Meiklejohn Hall, Room MI 4006.

Office Hours: 8:00 am - 5:00 pm

Office Phones: (510) 885-3477

Faculty

Professor

Keri O'Neal (Human Development and Women's Studies) (Director), Ph.D. Texas Tech University

Program Statement

The Liberal Studies Major aims to provide a rich liberal art educational experience through selected courses from a wide range of academic disciplines, while at the same time allowing students to select a field for in-depth study of their own interest. The broad-based, interdisciplinary nature of Liberal Studies provides a solid well-rounded undergraduate educational experience, integrating knowledge from arts and humanities, social sciences, and natural sciences, with analytical and communication skills well suited for many careers and professions.

The major consists of a common core and a choice from seven concentrations, designed to meet diverse student interests and needs not only for school teaching, but also for leadership in government, non-profit organizations, and business, and for graduate education in law, counseling, social work and services, public affairs and administration, and educational leadership.

About the Program

Use our university website link to learn more about what the Liberal Studies Program has to offer.

- Teacher Preparation
- Liberal Arts
- Degree Roadmaps
- Program for Accelerated College Education

- And more...

International Studies Program

The Department Office is located on the 2nd Floor of the Robinson Hall building, Room 220

Office Hours: 8:00 a.m. - 5:00 p.m., Monday through Friday

Dept Phone: (510) 885-3193

Faculty

Professors

Michael D. Lee (Anthropology, Geography and Environmental Studies), Ph.D. London School of Economics (England)

Andrew Wong (Anthropology, Geography and Environmental Studies), Ph.D. Stanford University

Meling Wu (Modern Languages and Literatures), Ph.D. State University of New York at Binghamton

Associate Professors

Elkin Alakent (Management), Ph.D. University of Texas at Dallas

Vahid Fozdar (History), Ph.D. University of California, Berkeley

Maria C. Ortuoste (Political Science), Ph.D. Arizona State University

Marcelo Paz (Modern Languages and Literatures), Ph.D. University of Cincinnati

Assistant Professor

Sukari Ivester (Sociology and Social Services), Ph.D. University of Chicago

Director: Andrew Wong

Program Statement

The International Studies major consists of an integrated group of courses reflecting international aspects of various disciplines. It is designed to provide the student with a broad base of understanding of the interrelationship of the world community, while at the same time providing the opportunity to specialize in an area of interest. A minor in International Studies is also offered.

The International Studies major consists of a lower division requirement of eighteen to nineteen (18-19) units in International Studies, Culture and Society, Geography, Economics, Political Science, and Humanities, plus a foreign language requirement. The upper division requirements include a methods course, a twentieth century History course, and two INTS courses (a senior seminar and an international field experience). The student will complete the major with twelve to sixteen (12-16) units of international coursework with a particular emphasis.

About the Program

Use our university website link to learn more about what the International Studies Program has to offer.

- Study Abroad
- Internships
- Center for International Education
- Degree Roadmaps
- Faculty Profiles
- And more...

School of Arts and Media

Participating Departments
Art, Communication, Music, Theatre & Dance

School Mission

The field of video production, for television as well as for corporate, educational, and Web uses, is expanding rapidly and there is much demand by employers for people with these skills. Other programs and courses at Cal State East Bay feature documentary and news production (COMM); stage acting (THEA); fiction writing for the printed page and the Internet (ENGL). This program introduces a new dimension to each of these areas: narrative or creative video. The new minor enables these departments to collaborate and actually create several videos of broadcast quality each year, giving students the opportunity to learn skills by practicing them.

About the School

Use our university website link to learn more about what the School of Arts and Media has to offer.

- Events
- Faculty, Student & Alumni News
- Graduate Study
- The Pioneer
- University Art Gallery
- Honors & Awards
- And more...

College of Science

College of Science

25800 Carlos Bee Blvd., Hayward, CA 94542

North Science (SC-N) building, Room 131

Office Hours: 8 a.m.- 5 p.m., Monday through Friday

(510) 885-3441

Mission Statement

The College of Science, by fostering an environment where students, faculty and staff work collaboratively to expand knowledge in the disciplines of science and mathematics, seeks to provide both majors and non-majors with a science foundation that is appropriate to their career goals and with knowledge and skills that will allow them to function as responsible and contributing members of society.

Jason Singley, Dean

Danika LeDuc, Associate Dean

In support of its mission, the College of Science is committed to provide:

A climate which encourages students, faculty, and staff to contribute to the intellectual, cultural, and economic life of the University and the communities it serves

Academic programs that meet the evolving needs of its students and outreach programs that serve those within the primary service areas of the University

Facilities and technology that support the learning environment

A learning community which ensures students of varying age, ethnicity, culture and socio-economic status are equally well served

An environment that fosters a lifetime of critical inquiry and learning

Institutions and Centers

Alameda County Collaborative for Learning and Instruction in Mathematics (ACCLAIM) is a regional initiative cosponsored by the California State University, East Bay (CSUEB) and the Alameda County Office of Education (ACOE), with the cooperation of local school districts.

East Bay Science Project (EBSP), provides professional development programs for K-12 teachers and technical support services for schools and districts. Established in 1990 at the California State University East Bay (CSUEB), in partnership with the Alameda County Office of Education (ACOE), to improve science education throughout the San Francisco Bay area. The partnership consists of CSUEB science faculty, pedagogical experts at ACOE, in-service and pre-service teachers, and public school administrators. The focus is to increase the quality of K-12 science teachers by increasing their science content knowledge and facilitating the sustained use of inquiry-based pedagogies.

The Biotechnology Certificate Program (BCP), is a competitive, limited enrollment program emphasizing close supervision and instruction in current theoretical and practical training in molecular life sciences. It was established in 1986 to meet the personnel requirements of the rapidly expanding Bay Area biotechnology industry.

The CSCI Student Service Center provides comprehensive major advising and support for students in the Health Sciences, Biology, Chemistry, Biochemistry, and Statistics majors. Advisors assist students in thoroughly understanding their major/minor requirements, planning classes, and completing necessary paperwork. The goal is to help students as they transition into university life and develop useful skills to complete their degree.

Center for Math Education & Research (CSER), is to enhance and facilitate the teaching and learning of mathematics across all communities in the Bay Area. The Center is designed to benefit both faculty members, who are seeking opportunities for grant funding, and funders from outside granting agencies interested in participating in the improvement of mathematics education. CMER provides a centralized location that describes the work and expertise of university faculty. CMER promotes opportunities for outside entities, who are interested in getting involved in community educational improvement, to collaborate with higher education faculty in Math and Education at Cal State East Bay.

Institute for Stem Education (STEMEd), provides leadership and support to California State University, East Bay, as it fulfills its commitment to preparing the students in our diverse community for success in Science, Technology, Engineering, and Mathematics disciplines, and to helping all students acquire the STEM knowledge necessary to function as engaged and informed citizens.

Scholarship Opportunities

For more information contact the College of Science Office in SC N131 or (510) 885-3441 or at: <http://www.csueastbay.edu/csci/about-the-college/scholarships.html>

- College of Science Scholarship
- Ernest Clements Scholarship
- E. Guy Warren Scholarship
- Robert C. & Jeanne M. Whitney Scholarship
- Hospital Service League Scholarship
- ACCMA Auxiliary District II Scholarship

Department of Biological Sciences

The Department Office is located on the 4th Floor of the North Science building, Room 429.

Open 8:00 a.m. - 6:00 p.m., Monday - Friday.

Dept. Phone: (510) 885-3471

Faculty

Professor Emeritus

Donald A. Gailey, Ph.D. University of California, Los Angeles

Professors

Christoph W. Baysdorfer, Ph.D. University of California, Berkeley

Michael S. Hedrick, Ph.D. University of British Columbia (Canada)

Caron Y. Inouye, Ph.D. University of California, Los Angeles

Christopher L. Kitting, Ph.D. Stanford University

Carol R. Lauzon, Ph.D. University of Vermont

Maria C. Nieto, Ph.D. University of California, Berkeley

Claudia Uhde-Stone, Ph.D. University of Bielefeld (Germany)

Associate Professors

Tyler Evans, Ph.D. University of Saskatchewan (Canada)

Maria E. Gallegos, Ph.D. University of Wisconsin, Madison

Kenneth Curr, Ph.D. Albert Einstein College of Medicine, New York

James Murray, Ph.D. University of Washington

Brian Perry (Chair), Ph.D. Harvard University

Erica L. Wildy, Ph.D. Oregon State University

Assistant Professors

Ana Maria Almeida, Ph.D. University of California, Berkeley

Pascale Guiton, Ph.D. Washington University in St. Louis

Nazzy Pakpour, Ph.D. University of Pennsylvania

Graduate Coordinator: Maria Gallegos

Mission Statement

The mission of the Department of Biological Sciences is to provide students with the most current biological information possible coupled with extensive laboratory and field experiences. An educated and trained biologist contributes to society and returns this knowledge to the community. A diversity of courses featuring laboratory and field work supports professional specialization in a broad spectrum of disciplines within the life sciences. The degree programs are designed for students with specific career objectives in laboratory, administrative, or field settings, and for students who may seek further graduate training or preparation for careers in health professions or teaching.

About the Department

Use our university website link to learn more about what the Biological Sciences Department has to offer.

- Advising & Resources
- Degree Roadmaps
- Volunteer Opportunities
- News & Events
- Natural History Collections
- Cleary Reserve
- East Bay Regional Parks
- Moss Landing Marine Laboratories
- Department News
- The S.U.C.C.E.S.S. Program
- And more...

Department of Chemistry and Biochemistry

The Department Office is located on the 4th Floor of the North Science building, Room 431.

We are open from 9:00 a.m. to 5:00 p.m., Monday through Friday.

Dept. Phone: (510) 885-3452

Faculty

Professors

Michael Groziak, Ph.D. Northwestern University

Chul-Hyun Kim, Ph.D. University of California, Berkeley

Anne T. Kotchevar, Ph.D. University of Minnesota, Minneapolis

Danika LeDuc, Ph.D. University of California, Berkeley

Maureen Scharberg, Ph.D. University of California, Davis

Monika Sommerhalter, Ph.D. Technische Universität Berlin (Germany)

Associate Professors

Patrick Fleming, Ph.D. The Ohio State University

Ann A. McPartland (Chair), Ph.D. Purdue University

Assistant Professors

Mark Borja, Ph.D. University of California, San Francisco

Marlin Halim, Ph.D. Columbia University

Patrick Huang, Ph.D. University of California, Berkeley

Aleksey Kocherzhenko, Ph.D. Delft University of Technology (The Netherlands)

Ruth Tinnacher, Ph.D. Colorado School of Mines

Graduate Coordinator: Chul-Hyun Kim

Department Statement

Chemistry is known as the central science because just about everything that we can touch and feel is made of chemicals. The many applications of chemistry to our lives have created a broad range of opportunities for employment. With a B.A., B.S., or M.S. degree in Chemistry, a student may find a research or technical position in the petroleum, chemical or food processing industries. B.A. and B.S. graduates with degrees in chemistry or biochemistry are also employed by pharmaceutical and biotechnology companies. In addition, graduates of chemistry or biochemistry work in sales and plant development, quality control, customer relations, and many other aspects of modern business. Combining the bachelor's degree in chemistry or biochemistry with a higher degree can lead to many unique and rewarding careers. The B.S. degree in biochemistry is particularly useful for those planning advance training in medicine, dentistry, pharmacy, or optometry. The B.A. in Chemistry and B.A. Biochemistry

degrees with the Chemistry Education Concentration prepare students for entry into a single subject teaching credential program in chemistry. The B.S. and M.S. programs provide excellent preparation for the Ph.D. degree for the student who wants to make research and/or university teaching in chemistry or biochemistry a primary occupation. Chemical research is at the heart of progress that is made in the development of pharmaceuticals, agriculture, nutrition, the environment, and our understanding of nature.

In general, the outlook is bright for anyone who wishes to study chemistry or biochemistry.

About the Department

Use our university website link to learn more about what the Chemistry and Biochemistry Department has to offer.

- Advising
- Prospective Students
- American Chemical Society
- And more...

Department of Computer Science

The Department Office is located on the 5th Floor of the Student and Faculty Support (SF) building, Room 570.

Hours Open: 8:00 a.m. to 5:00 p.m., Monday through Friday.

Dept. Phone: (510) 885-4300

Faculty

Professors

Kevin A. Brown, Ph.D. University of South Carolina

Leann Christianson, Ph.D. University of South Carolina

Levent Ertaul, Ph.D. University of Sussex (United Kingdom)

Lynne L. Grewe, Ph.D. Purdue University

C. Matthew Johnson (Chair), Ph.D. College of William and Mary

Associate Professors

Farzan Roohparvar, Ph.D. Iowa State University

David Yang, Ph.D. Columbia University

Assistant Professors

Zahra Derakhshandeh, Ph.D. Arizona State University

Varick Erickson, Ph.D. University of California, Merced

Xiaojun Ruan, Ph.D. Auburn University

Jiaofei Zhong, Ph.D. The University of Texas at Dallas

Graduate Coordinator: Kevin Brown

Department Statement

The Computer Science Department is a large and flourishing department, offering a variety of courses at a variety of times. The Department consists of diverse full-time faculty, with a wide range of backgrounds and interests. The Department offers over 25 undergraduate CS courses and over 25 graduate CS courses. The Department strives to provide a quality education to a diverse student community, and serves as one of the larger majors on campus.

About the Department

Use our university website link to learn more about what the Computer Science Department has to offer.

- Awards & Scholarships
- Resources
- PhD Graduate School Information
- Computer Science Professional Societies
- Advising & Student Services
- And more...

Department of Earth and Environmental Sciences

The Department Office is located on the 3rd Floor of the North Science (SC-N) building, Room 329.

Open 8:30 a.m. - 5:30 p.m., Monday - Thursday, closed Fridays.

Dept. Phone: (510) 885-3486

Faculty

Professors

Mitchell Craig, Ph.D. Georgia Institute of Technology

Jean E. Moran, (Chair), Ph.D. University of Rochester

Jeffery C. Seitz, Ph.D. Virginia Polytechnic Institute and State University

Associate Professor

Luther M. Strayer, Ph.D. University of Minnesota

Assistant Professors

Michael Massey, Ph.D. Stanford University

Patricia Oikawa, Ph.D. University of Virginia

José Rosario, Ph.D. Cornell University

Environmental Science Program Coordinator: Michael Massey

Department Statement

The Department of Earth and Environmental Sciences at Cal State East Bay is the home of the Geology and Environmental Science programs. Located on the tectonically active Hayward fault, we offer a variety of opportunities for students to obtain experience in lab- and field-based studies. We are a small department that prides itself on a feeling of community. Small class sizes guarantee close interaction between students and faculty, with personal attention at all levels.

About the Department

Use our university website link to learn more about what the Earth and Environmental Sciences Department has to offer.

- [Announcements & Events](#)
- [Faculty Profiles](#)
- [Scholarships & Awards](#)
- [East Bay Science Project](#)
- [Important Links](#)
- [USGS \(DYFI\)](#)
- [And more...](#)

School of Engineering

**Computer Engineering, Industrial Engineering, Engineering Management, and
Construction Management**

The Department Office is located on the 5th Floor of the Student Faculty Building (SF), Room 524.

Hours Open: 9:00 a.m. to 6:00 p.m., Monday through Friday.

Dept. Phone: (510) 885-2654

Faculty

Professors

David Bowen, Ph.D. University of California, Berkeley

Farnaz Ganjeizadeh, Ph.D. University of Alabama at Huntsville

Saeid Motavalli (Chair), Ph.D. University of Pittsburgh

Zinoviy Radovilsky (joint appointment in Engineering and Management), Ph.D. Scientific Research Institute of Labor, Moscow

Farzad Shahbodaghlou, Ph.D. Purdue University

Eric A. Suess (joint appointment in Engineering and Statistics), Ph.D. University of California, Davis

Helen Zong, Ph.D. University of Houston

Associate Professor

Cristián Gaedické, Ph.D. University of Illinois, Urbana-Champaign

Assistant Professors

Reza Akhavan, Ph.D. University of Central Florida

Fadi Castronovo, Ph.D. Pennsylvania State University

Roger Doering, Ph.D. University of California, Berkeley

James Tandon, Ph.D. University of California, Santa Barbara

Department Statement

The School of Engineering offers undergraduate degrees in Industrial Engineering, Computer Engineering and Construction Management, and graduate degrees in Engineering Management and Construction Management. Certificates in Quality, Project Management, Construction Planning and Control and Construction Administration are also offered. The School serves a diverse regional and international

student population, and utilizes modern tools and laboratories for active learning and student engagement while emphasizing collaborative learning.

Computer Engineers are involved in all aspects of computing, from the design of individual microprocessors, personal computers, and supercomputers, to circuit design, as well as the integration of computer systems into other kinds of systems (a motor vehicle, for example, has a number of subsystems that are computer oriented). Common computer engineering tasks include writing embedded software for real-time microcontrollers, working with sensors, designing mixed signal circuit boards, and designing operating systems. The Computer Engineering Program is accredited by the Engineering Accreditation Commission of ABET, 111 Market Place, Suite 1050, Baltimore, MD 21202-4012, Telephone: (410) 347-7700.

Industrial Engineers serve an essential need in today's technical society. As the interface between humans and technology, industrial engineers work to improve the quality and efficiency of the production of goods and services. The depth and caliber of academic preparation required to excel in this field is embodied in CSUEB's Industrial Engineering curriculum. The Industrial Engineering Program is accredited by the Engineering Accreditation Commission of ABET, 111 Market Place, Suite 1050, Baltimore, MD 21202-4012, Telephone: (410) 347-7700.

Engineering Management curriculum is distinctive in that it provides a blend of qualitative management and quantitative industrial engineering skills. Courses are offered in engineering, business, computer science and statistics. Students gain theoretical and practical training in how to plan, organize, allocate resources, and direct and control activities that have technological components.

Construction Management goals are to prepare effective managers for public and private construction projects, to prepare the workforce required for the expected increase in the State's transportation infrastructure improvements, and to enable high school graduates, transfer students and working professionals to assume leadership roles in the construction industry. Special attention is given to working students with classes offered mainly at times convenient to students.

About the School

Use our university website link to learn more about what the School of Engineering has to offer.

- [About Accreditation](#)
- [Advising](#)
- [MESA](#)
- [Engineering Pathways](#)
- [And more...](#)

Department of Health Sciences

The Department Office is located on the 5th Floor of the Student and Faculty Support (SF) building, Room 502.

Open 8:00 a.m. - 5:00 p.m., Monday - Friday.

Faculty

Professor

Oscar Wambuguh, Ph.D. University of California, Berkeley

Associate Professor

Chandrakala Ganesh, Ph.D. Pennsylvania State University

Assistant Professors

Alina Engelman, Dr.P.H. University of California, Berkeley

Ryan Gamba, Ph.D. University of California, Berkeley

Andrew Kelly, Ph.D. Northwestern University

Nidhi Khosla, Ph.D. Johns Hopkins University

Juleen Lam, Ph.D. Johns Hopkins University

Matthew Moore, M.P.H. Tufts University; J.D. Northeastern University, School of Law

Arnab Mukherjea, Dr.P.H. University of California, Berkeley

Michael Schmeltz, Ph.D. City University of New York, Graduate Center

Jason Smith (Chair), M.T.S., Harvard University, School of Divinity; J.D., Northeastern University, School of Law

Michael Stanton, Ph.D. Duke University

Department Statement

The Health Sciences degree program is the second largest and the fastest growing program at CSUEB. It is an applied science that focuses on knowledge and skills necessary to practice in both clinical and population health settings. Students in our Health Sciences program prepare for careers in healthcare administration and policy, public health or prepare for further training in technical or professional clinical programs. Health sciences is an interdisciplinary field that focuses on the application of physical, biological, and social sciences to understand and to improve health in human beings.

Healthcare as an industry is anticipated to become one of the largest employers in the United States in the next ten years with healthcare support and technical occupations being two fastest growing labor groups.

There are hundreds of job opportunities and areas of practice in this field. A degree in Health Sciences from CSUEB provides the foundation graduates need to participate in this exciting and growing field.

Mission

Working together to improve the health of the San Francisco Bay Area, California, and beyond through teaching, research, and service.

Vision

We work for a future where:

The students of the Health Sciences program at CSU East Bay are committed to tackling the health challenges facing the communities of the East Bay and California, to eliminating health disparities, and to creating climate-change resilient communities. The program students are change agents driving improvements in health across the East Bay.

The Health Sciences program emphasizes health policy, public health and environmental health. Rooted in principles of solidarity, health equity, and social justice, the program values an interdisciplinary approach that emphasizes teamwork, problem solving, adaptability, ethics and strong evidence-based practice.

The Health Sciences program is an active and integral part of CSU and the East Bay communities with strong relationships to community organizations, hospitals, medical centers, and health departments. The program is a leader in the institutional focus of CSU East Bay on health and health-related programs and is a critical part of the mission of CSU East Bay. It is nationally-recognized for its innovations in pedagogy and curriculum, and its faculty are active in their respective fields of research with work appearing in a wide range of publications.

The Health Sciences alumni are leaders and pioneers in their fields and work across all sectors in health and public health. They are adaptable to the changing demands of their fields and are lifelong learners. They take pride in their alma mater and are active donors and volunteers to the program, helping to build a resilient program that is a key part of the health of the East Bay and California.

About the Department

Use our university website link to learn more about what the Health Sciences Department has to offer.

- Advising
- Check Sheets
- Roadmaps
- Internships
- And more . . .

Department of Mathematics

The Department Office is located on the 5th Floor of the Student-Faculty (SF) building, Room 570.

Hours Open: 8:00 a.m. to 5:00 p.m., Monday through Friday.

Dept. Phone: (510) 885-3434

Faculty

Professor Emeritus

Donald L. Wolitzer, Ph.D. Northeastern University

Associate Professor Emerita

Chung-Hsing OuYang, Ph.D. University of California, Berkeley

Professors

Kevin E. Callahan, Ph.D. University of California, San Diego

Julie S. Glass (Chair), Ph.D. University of California, Santa Cruz

Kathleen Hann, Ph.D. University of California, Davis

Massoud Malek, Ph.D. University of Houston

Julia Olkin, Ph.D. Rice University

Shirley Yap, Ph.D. University of Pennsylvania

Assistant Professors

Ehsan Kamalinejad, Ph.D. University of Toronto (Canada)

Jesus Oliver, Ph.D. University of California, San Diego

Andrea Arauza Rivera, Ph.D. University of California, Riverside

Graduate Coordinator: Julia Olkin

Department Statement

Mathematics is an intriguing, interesting and beautiful subject. It is also challenging and rigorous. Students are drawn to mathematics because of its clarity and the joy of discovering solutions to difficult problems. The Department of Mathematics offers strong Bachelor of Science and Master of Science degrees that include a variety of courses intended to prepare students for a career in any mathematics related field or other areas that value quantitative and problem-solving skills. The program allows flexibility in breadth and depth where students can choose among courses with applied and pure emphases. The faculty are committed to creating a welcoming environment and providing opportunities for all students to explore mathematics within and beyond the classroom.

About the Department

Use our university website link to learn more about what the Mathematics Department has to offer.

- Advising
- Problem of the Month
- Awards & Scholarships
- Resources
- Math Department Placement Exam
- Student Clubs
- And more...

Department of Nursing

The Department Office is located on the 5th Floor of the Student and Faculty Support (SF) building, Room 502.

Open 8:00 a.m. - 5:00 p.m., Monday - Friday.

Dept. Phone: (510) 885-3481

Faculty

Professors

Roberta F. Durham, Ph.D. University of California, San Francisco

Kimberly H. Kim, Ph.D. University of Wisconsin

Lindsay McCrea, Ph.D. University of California, San Francisco

Lynn A. Van Hofwegen (Chair), D.N.P. Case Western Reserve University

Associate Professors

Maria Cho, Ph.D. University of California, San Francisco

Denise Li, Ph.D. University of California, San Francisco

Assistant Professors

Daniel Doolan, Ph.D. University of California, San Francisco

Monika Britt Eckfield, Ph.D. University of California, San Francisco

Renee M. Granados, Ed.D. University of San Francisco

Sahar Nouredini, Ph.D. University of California, San Francisco

Claire Valderama-Wallace, MS University of California, San Francisco

Jennifer Winters, Ph.D. Walden University

Mission Statement

The mission of the baccalaureate nursing program at CSUEB is to prepare professional nurse generalists who are committed to the practice of nursing and responsive to the ever changing needs of the communities we serve. The program therefore seeks to provide an inclusive community of learning focused primarily on undergraduate nursing education and the development of lifelong learners.

The nursing program supports and reflects the University mission of quality education for a diverse society. We value a diverse workforce, a diverse nursing student body, and culturally inclusive practitioners of nursing who are equipped to provide high quality care and have a transformative influence on nursing practice, healthcare environments, and the health of our community.

About the Department

Use our university website link to learn more about what the Nursing Department has to offer.

- [NCLEX Pass Rates](#)
- [Degree Roadmaps](#)
- [Information Sessions](#)
- [Credit for Experience](#)
- [Nursing Student Handbook](#)
- [Scholarships](#)
- [DNP Programs](#)
- [Champions of Nursing Excellence](#)
- [And more...](#)

Department of Physics

The Department Office is located on the 2nd Floor of the North Science (SC-N) building, Room 231

Open 8:00 a.m. - 4:30 p.m., Monday - Friday.

Faculty

Professors

Derek Kimball, Ph.D. University of California, Berkeley

Jason Singley, Ph.D. University of California, San Diego

Associate Professor

Erik Helgren (Chair), Ph.D. University of California, Los Angeles

Assistant Professors

Amy Furniss, Ph.D. University of California, Santa Cruz

Kathryn Grimm, Ph.D. State University of New York, Stony Brook

Ryan Smith, Ph.D. University of Colorado, Boulder

Department Statement

Physics is crucial to understanding the world around us, the world inside us, and the world beyond us. It is the most basic and fundamental science. Physics challenges our imaginations with concepts like relativity and string theory, and it leads to great discoveries, like computers and lasers, that change our lives. In Physics, one attempts to discover, formulate, explain, and apply the basic laws of nature. Topics of study in Physics are as diverse as astrophysics, relativity, properties of materials, or the standard model of fundamental particles and interactions. Principles of Physics provide the foundation for other sciences as well as engineering.

At CSUEB students can choose between a Physics, B.S. degree and a Physics, B.A. degree.

The B.S. degree offers a comprehensive curriculum with a hands-on philosophy to learning that includes numerous laboratory courses and a strong emphasis on undergraduate research with faculty. The Physics, B.S. degree major program is designed to give students an in-depth and focused understanding of the fundamentals of physics including concepts of classical mechanics, wave motion and sound, electromagnetism and optics, heat and thermodynamics, relativity, quantum mechanics, and elementary particles and their interactions. The program prepares students for graduate school in Physics and is also an excellent foundation for other professional schools. The Physics B.S. program also prepares students for careers in basic research, defense industry, clean energy, science education, and all technology-related sectors.

The B.A. degree also provides hands-on learning with lab-based coursework but requires fewer courses, and as such the B.A. program can be finished in an accelerated timeframe. The B.A. program still provides enough experience and breadth of study so that students are well prepared for careers in basic research, defense industry, clean energy, science education, and all technology-related sectors.

Physics Major Learning Objectives

Students graduating with a Physics, B.S. or Physics, B.A. degree will be able to:

1. Understand the fundamental principles of physics and be able to apply these core ideas to analyze physical processes;
2. Apply quantitative reasoning and critical thinking to solve complex problems, both theoretical and experimental in nature;
3. Independently learn new technical subjects and skills;
4. Design, construct, assess, and troubleshoot experiments, quantitatively analyze the results using appropriate statistical procedures and tests of systematic errors, and draw meaningful conclusions;
5. Effectively communicate scientific ideas, both theoretical and experimental, to diverse audiences through written and oral presentations, both formal and informal;
6. Work professionally, effectively, and inclusively as a member of diverse collaborations to solve problems.

The Physics department also offers a minor in Physics and, new as of Fall 2018, a minor in Astronomy!

About the Department

Use our university website link to learn more about what the Physics Department has to offer.

- Advising
- Resources
- Graduate School
- Scholarships
- Spitzer Physics Seminars
- Internships
- And more...

Department of Psychology

The Department Office is located on the 2nd Floor of the South Science (SC-S) building, Room 229

Open 8:30 a.m. - 5:00 p.m., Monday - Friday

Dept. Phone: (510) 885-3484

Faculty

Professors Emeriti

John D. Lovell, Ph.D. University of California, Los Angeles

Mary Kay Stevenson, Ph.D. University of South Carolina, Columbia

Professors

Dong-Won Choi, Ph.D. University of Illinois, Urbana-Champaign

Marvin R. Lamb, Ph.D. University of California, Berkeley

David A. Sandberg, Ph.D. Ohio University

Associate Professors

Emily Cleveland, Ph.D. Clark University

David Fencsik (Chair), Ph.D. University of Michigan

Assistant Professors

Brian Gonsalves, Ph.D. Northwestern University

Murray Horne, Ph.D. Cardiff University (United Kingdom)

Kristin Layous, Ph.D. University of California, Riverside

Jeri Little, Ph.D. University of California, Los Angeles

Amanda Morrison, Ph.D. Temple University

Negin Toosi, Ph.D. Tufts University

Department Statement

Psychology is the science of behavior and mental processes. Many psychologists work with people to understand how they think, respond to stress, learn and forget, develop into unique personalities, and interact with one another. Others study the behavior and nervous systems of animals in order to find general principles that apply across species. Psychologists apply their knowledge to do therapy and counseling, to improve practices in schools, prisons, and rehabilitation centers, and to enhance performance in industry, business, and the professions. Careers in psychology are already plentiful and fulfilling, and the field is one of the fastest growing in the world.

About the Department

Use these website links to learn more about what the Psychology Department has to offer.

- Psychology Department Website: <http://www.csueastbay.edu/psychology/index.html>
- Advising: <http://www.csueastbay.edu/psychology/academic-advising/>
- Faculty Office Hours: <http://www.csueastbay.edu/psychology/office-hours.html>

Department of Statistics and Biostatistics

The Department Office is located on the 2nd Floor of the North Science (SC-N) building, Room 229.

Open 9:00 a.m. - 6:00 p.m., Monday - Thursday, and 9:00 a.m. - Noon on Fridays.

Dept. Phone: (510) 885-3435

Faculty

Professor Emerita

Lynn Eudey, Ph.D. University of California, Berkeley

Professors

Shenghua (Kelly) Fan, Ph.D. University of Minnesota

Eric A. Suess, Ph.D. University of California, Davis

Mitchell R. Watnik, Ph.D. University of California, Davis

YanYan Zhou, Ph.D. University of Maryland

Associate Professors

Ayona Chatterjee, Ph.D. University of Edinburgh (United Kingdom)

Joshua D. Kerr (Chair), Ph.D. University of California, Davis

Assistant Professors

Eric Fox, Ph.D. University of California, Los Angeles

Li Zou, Ph.D. State University of New York

Graduate Coordinator: Lynn Eudey

Department Statement

There are many job opportunities locally for Statisticians in many diverse areas of application, such as Actuarial Science, Biostatistics, Bioinformatics, Data Analysis, Data Science, Medical Statistics, Pharmaceutical, Biotech, Finance, Banking, Government, Education, Consulting, and many others. Students are encouraged to consider the fields of Statistics and Biostatistics as a program of study, whether graduate or undergraduate. Many of the Department's undergraduate students are double-majors. Computer Science, Math, and Psychology majors, in particular, have found double-majoring with Statistics to be valuable in getting a job or pursuing higher degrees.

About the Department

Use our university website link to learn more about what the Statistics and Biostatistics Department has to offer.

- Scholarships
- Actuarial Science
- Biostatistics (PSM)
- Statistics Organizations
- Resources
- And more...

Pre-Professional Programs (PHAP)

The Pre-Professional Health Academic Program (PHAP) Office is located on the 1st floor of the North Science Building, SC N113

Contact the office for office hours

Office Phone: (510) 885-4764

Faculty

Professor

Oscar Wambuguh, Ph.D. University of California, Berkeley

Program Statement

PHAP is operated by Continuing Education, in collaboration with the College of Science, and prepares undergraduate and post-baccalaureate students interested in biomedical careers (medicine, dentistry, pharmacy, optometry, veterinary science, graduate nursing, physician assistant, podiatry, physical therapy and selected allied health programs) for application to these doctoral programs. Students are encouraged to review information on the PHAP website to learn more about differences between those categories.

A student interested in entering medicine, dentistry, optometry, pharmacy, physical therapy, veterinary science, or allied health sciences should contact the PHAP Office at the North Science Building, SC N113 (510-885-4764) for information and registration in the program. The office will direct the student to a preprofessional health advisor to discuss individual course needs and counseling about the requirements for admission to professional schools. Information about specific health and veterinary fields, schools, admission requirements, applications, etc., is available through numerous online documents listed under "Links" at the PHAP website. The national health professional associations (AAMC, ADEA, AACOM, ASCO, AAVMC, etc.) also have listings of schools which may be linked to from their sites.

The Director of PHAP is Dr. Oscar Wambuguh, also a pre-health advisor and professor in health sciences. There are three other pre-health faculty advisors in the program who can be reached for an appointment using the links at the College of Science highlighted below. Students should make an appointment to meet with the advisor as often as necessary. The pre-health advisor engages students in discussions concerning courses, course mix, course load, and volunteer, research, and community service opportunities required by many professional schools. Information about advising appointments can also be obtained by e-mailing phap@csueastbay.edu

About the Program

Use the PHAP website link to learn more about what the Pre-Professional Health Academic Program has to offer.

- About
- The Profession
- Outcomes
- Curriculum
- Faculty
- Admission
- Support
- And more . . .

Marine Science Program

Cal State East Bay contact the Biological Sciences Office, located on the 4th Floor of the North Science building, Room 429.

Open 8:00 a.m. - 6:00 p.m., Monday - Friday.

Dept. Phone: (510) 885-3471

Faculty

Professors Emeriti

William Broenkow (Physical Oceanography)

Gregor M. Cailliet (Ichthyology)

Michael S. Foster (Phycology)

H. Gary Greene (Marine Geology)

Professors

Ivano W. Aiello (Geological Oceanography)

Kenneth H. Coale (Chemical Oceanography/Trace Metals)

Jon Geller (Invertebrate Zoology)

Michael H. Graham (Phycology)

Scott Hamilton (Ichthyology)

James T. Harvey (Interim Director, Vertebrate Ecology)

Erika McPhee-Shaw (Physical Oceanography)

Joan Parker (Research Librarian)

Diana Steller (Research Diving)

Nick Welschmeyer (Biological Oceanography)

Research Professors

Simona Bartl (Molecular Biology)

Laurence Breaker (Physical Oceanography)

David A. Ebert (Ecomorphology)

Stacy Kim (Benthic Ecology)

Valerie Loeb (Ichthyoplankton)

John Oliver (Benthic Ecology)

Jason Smith (Environmental Biotechnology Laboratory)

Richard M. Starr (C.A. Seagrass/Fisheries and Conservation Biology)

Program Statement

The California State University operates the Moss Landing Marine Laboratories (MLML) at Moss Landing on Monterey Bay, California. This facility functions as a seaside extension of the campuses of seven cooperating California State Universities (East Bay, Monterey Bay, San Jose, San Francisco, Sacramento, Stanislaus, and Fresno) and offers course work in marine biology, geology, oceanography, and other marine sciences.

Facilities

Since January 2000, the Laboratories have occupied new facilities in Moss Landing overlooking Monterey Bay, replacing the original laboratory demolished in the 1989 Loma Prieta earthquake. The stunning new building provides modern, up-to-date classrooms, laboratories, research facilities, library and conference room for faculty, staff and students of the consortium campuses.

MLML's Marine Operations Center, located also in Moss Landing, facilitates oceanographic and near-shore classes and research by providing shore support. The Center houses equipment used for in-port maintenance of scientific equipment, SCUBA air compressor, shore-based radio operations, and other support needs.

The MLML maintains a collection of nautical charts and topographical maps with an emphasis on the West Coast and there is a growing collection of reprints. It also subscribes to abstracting services such as "Oceanic Abstracts" and "Aquatic Sciences and Fisheries Abstracts." A terminal is available for computer literature searches. Close ties are maintained with libraries at Stanford's Hopkins Marine Station, U.C. Santa Cruz, Naval Postgraduate School, San Jose State University, and the Monterey Bay Aquarium Research Institute. Materials are borrowed from these agencies or further afield as the need arises. A special effort has been made to collect materials relating to Monterey Bay and Elkhorn Slough.

As a member of the Central California Oceanographic Cooperative (CENCAL), MLML operates the 135-foot Research Vessel Point Sur. The R/V Point Sur, built in 1981, is well-equipped for instructional use and research, with a trawl winch, two hydrographic winches and three laboratories, scientific equipment for sampling and oceanographic profiling, Smith-McIntyre grabs, rock dredges, and various types of coring devices. Also available is a variety of nets for bottom and midwater trawls.

The Laboratories also own and operate the 56-foot R/V John Martin and the 35-foot R/V Ed Ricketts. These boats are used for trawling, water sampling and other work near shore, and serve as diving platforms.

In addition, faculty and students at MLML utilize other University National Oceanographic Laboratory System (UNOLS) vessels when they have research requirements for larger vessels or for vessels in a different area of the world. MLML personnel have participated in cruises to Baja California, Hawaii, the Bahamas, Mexico, South America, the Arctic, and the Antarctic.

Graduate Program

A Master of Science in Marine Science degree program is offered at MLML for students from Cal State East Bay and the other consortium schools. Details of this program follow. In addition, graduate students from Cal State East Bay may take such courses at Moss Landing as are appropriate to their degree

objectives, including that of an M.S. in Biological Science or an M.S. in Geology. (See the Department of Biological Sciences and Department of Earth and Environmental Sciences chapters in this catalog.) A major part of the work leading to the M.S. degree in Biological Science, particularly in the environmental biology option, or to the M.S. degree in Geology, may be completed at the Marine Laboratories. Normally, a minimum of one or two quarters enrollment for other necessary courses on the Hayward campus may also be required.

Courses Offered

Full-time coursework and research in marine sciences are offered the year around. Emphasis in instruction and research is at the upper-division undergraduate and graduate levels. The Laboratories operate on a semester system during the academic year.

A total of thirty to forty units is offered each term in marine biological and physical sciences. Contact the Cal State East Bay Department of Biological Sciences for a current list of courses for the term you wish to attend, or you can write to Moss Landing Marine Labs, 8272 Moss Landing Road, Moss Landing, CA 95039. Basic courses offered every term include marine ecology, marine science diving, graduate seminar, and selected topics in marine sciences. See the BIOL and ENSC course prefixes in the Course Descriptions chapter in this catalog.

Nature of Instructional Program

Classes usually are small, with major emphasis upon field and laboratory instruction, and with a strong independent study or directed research component. Coursework usually is organized into large blocks of time (all day on a given day). Since field and laboratory activities are more demanding of time and energy than is usual for on-campus courses, the staff recommends that the student limit his or her academic load to twelve units. While it is possible to commute to Moss Landing for part-time work, this is not recommended because of the time and energy drain. In addition to standard course offerings, independent study (undergraduate) and graduate research and thesis work may be undertaken under supervision of staff members currently in residence.

Research Areas and Emphases at Moss Landing

Stress is upon field-oriented studies of marine and estuarine ecosystems, with physical science research concerned particularly with geological, chemical, and physical limiting factors, and biological investigations dealing with relationships of organisms to these factors. Where possible, physical and biological studies are paired to provide reciprocal benefits from a team approach and from interdisciplinary faculty sponsorship. The near-shore shallow waters of Monterey Bay, Elkhorn Slough, and the deep waters of the Monterey Submarine Canyon provide a wide diversity of habitats.

Housing in Moss Landing Area

Commercial housing (apartments, small furnished houses, rooms with or without board, etc.) is available at communities near Moss Landing (Castroville, Salinas, Watsonville, Aptos, Monterey). Short-distance

commuting from these areas is necessary; thus, availability of a car or participation in a car pool usually is required.

Registration Procedures

Since MLML courses are offered on the semester system (fall and spring semesters), there are special registration procedures.

Students must complete and submit a "Space Reservation" form to MLML (available through the Cal State East Bay Department of Biological Sciences and through MLML). Permission must be given by Cal State East Bay Biological Sciences for East Bay MLML students to register online. Students must also attend the first day of classes at MLML.

Fall and spring registration for MLML courses is at the same time as Cal State East Bay's regular fall and spring registration. Fall registration fees are paid at the same time as regular fall registration fees. Spring registration fees must be paid at the beginning of spring semester MLML classes (end of January).

Programs of Study by Department (A-G)

Academic Course of Study

Cal State East Bay offers a vigorous academic course of study with a real-world curriculum to prepare students for a lifetime of personal achievement and career success.

The program links below contain program descriptions, outcomes, career opportunities, program requirements, course names, numbers, descriptions, and degree, minor, credential, and certificate requirements.

Department of Accounting and Finance

The Department Office is located on the 4th floor of the Valley & Business Technology (VBT) building, Room 435

Open Hours: 8:00 am to 5:00 pm Monday through Friday

Dept. Phone: (510) 885-3397

Faculty

Professors

Micah Frankel, Ph.D. University of Arizona

Siu-Kuen Scott Fung, D.B.A. Boston University

Ching-Lih Jan, Ph.D. University of California, Berkeley

Nancy R. Mangold (Chair), Ph.D. University of California, Berkeley

Fung-Shine Pan, Ph.D. University of California, Berkeley

Tammie X. Simmons-Mosley, Ph.D. University of Wisconsin-Madison

Associate Professors

Brian Du, Ph.D. Rutgers University

Eric Fricke, Ph.D. Pennsylvania State University

M. Sinan Goktan, Ph.D. The University of Texas at Dallas

Y. Robert Lin, Ph.D. University of California, Los Angeles

Kim Shima, Ph.D. University of Hawai'i at Manoa

Jing-wen Yang, Ph.D. University of Maryland

John Tan, Ph.D. University of South Florida

Assistant Professors

Ying Guo, Ph.D. University of Hawai'i at Manoa

Pei Hui Hsu, Ph.D. University of Oregon

Robert Loveland, Ph.D. University of Georgia

Our Mission Statement reflects that of our College of Business and Economics

...to provide excellence and innovation in integrating quality teaching and learning, with applied research and relevant experience to a diverse clientele from the San Francisco Bay Area to the Global Community.

We provide an education that will allow students to succeed in a business environment that is characterized by rapid technological advancements; a work force of ethnic, cultural, and gender diversity; demands for continuous improvements in quality and service; demands for continuous individual and organizational learning; and, demands for the understanding and skills needed to practice in global markets.

Our Department strives to maintain a quality program that is responsive to an ever changing environment. The faculty members of our Department combine distinguished academic backgrounds with many years of practical experience in their respective professional areas. Currently, there are 38 faculty members who fill full-time positions augmented by part-time faculty with specialized expertise. These full-time and part-time faculty members are a valuable resource, not just for the University and its students, but also for the surrounding business community.

The Department offers over 100 different courses in accounting, finance, taxation, and real estate courses.

About the Department

Use our university website link to learn more about what the Accounting and Finance Department has to offer.

- Degree Roadmaps
- Faculty & Staff
- Office Hours & Teaching Schedule
- Course Student Learning Outcomes
- Career Development Workshops
- Acct & Fin Career Development Workshops
- And more...

Bachelor

Business Administration, B.S.: Accounting Concentration

Business Administration, B.S. Program (120 units)

Program Description

The College of Business and Economics, which offers the Bachelor of Science in Business Administration (B.S.B.A.) program, is committed to providing life-changing, quality business education to prepare students from diverse backgrounds to become successful business professionals and leaders. The B.S.B.A. program imparts students with the knowledge and skills necessary to understand the changing global business environment and to prepare students for success in their professional careers.

The B.S.B.A. major program is structured around a set of core courses enabling students to develop general business perspective and skills. Students are required to choose an area of specialization, i.e., concentration, corresponding to their desired career path. In addition, the program allows students flexibility to customize their specialization by choosing business elective courses. These electives may be chosen to further strengthen their preparation in their chosen concentration.

The undergraduate and the graduate programs in the College of Business and Economics are accredited by the Association to Advance Collegiate Schools of Business International (AACSB).

Program Learning Outcomes

Students graduating with a Bachelor of Science in Business Administration will be able to:

- Recognize and integrate foundation knowledge across functional areas.
- Apply critical thinking skills to solve business problems.
- Understand and apply quantitative methods and tools in evaluating business problems and making effective business decisions.
- Apply technology to analyze data and provide solutions to business problems.
- Apply effective oral communication skills in a diverse and global environment.
- Apply effective written communication skills in a diverse and global environment.
- Apply effective team skills to work in a diverse and global environment.
- Identify and assess ethical issues and properly articulate ethical decisions.

Expiration of Courses

Upper division major/concentration requirement courses will expire ten years after completion of the term in which they are earned. Expired courses cannot be used to fulfill degree requirements and must be replaced by current credits. Requests for waivers of the ten-year limit for extenuating circumstances, other than mere failure to register, are made to the department chair in which the course resides and the director of undergraduate programs.

Transfer of Courses

Upper division courses will only be considered for equivalency or transfer credit if they are from AACSB accredited institutions. Exceptions will be made for programs that have current and signed agreements with the College of Business and Economics.

Degree Requirements

The B.S. degree requires a total of 120 units. In addition to General Education courses and other graduation requirements, the Business Administration major requires three sets of courses: (I) lower division core courses, (II) upper division core courses, and (III) courses to fulfill concentration requirements.

Degree Requirements Unit-Outline

- A baccalaureate of science degree requires a total of 120 units:
 - The major requirements consists of 75 units;
 - General Education (GE) & Graduation Requirements (GR) consists of 57 units;
 - Free Electives may consist of 0 units (*actual number of free elective units may depend on GE/GR units*).

Note: It may be possible to double-count units within the graduation requirements or that a course may satisfy both a graduation requirement and a major requirement. Students should contact their program and AACE advisors for information.

Business Administration Major Requirements (75 units)

Note: Please see the Errata pages for corrections made to the major requirements effective for all concentrations.

Lower Division Core Courses

The following 18 units of lower-division coursework are required:

- ACCT 210 - Introduction to Financial Accounting *Units: 3*
- ACCT 215 - Introduction to Managerial Accounting *Units: 3*
- ECON 200 - Principles of Microeconomics *Units: 3 ; G.E./G.R. Area: D1-3; Social Justice*
- ECON 205 - Principles of Macroeconomics *Units: 3 ; G.E./G.R. Area: D1-3*
- MATH 180 - Mathematics for Business with Calculus *Units: 3 ; G.E./G.R. Area: B4*
- STAT 110 - Elements of Statistics for Business and Economics *Units: 3*

Upper Division Core Courses

The following 27 units of upper-division coursework is required:

- BUS 310 - Organizational Behavior *Units: 3*
- BUS 325 - Marketing Principles *Units: 3*
- BUS 330 - Financial Management *Units: 3*
- BUS 335 - Communications in Team Building *Units: 3*
- BUS 360 - Operations Management *Units: 3*
- BUS 499 - Seminar in Strategic Business Management *Units: 3*
- ECON 380 - Managerial Economics and Business Strategy *Units: 3 ; G.E./G.R. Area: B6; Sustainability*
- MGMT 350 - Decision Science *Units: 3 ; G.E./G.R. Area: B6*

Plus, choose one (1) course from the following:

- BUS 385 - International Business *Units: 3 OR*
- ECON 385 - Global Economic Analysis *Units: 3 Recommended for Business Economics concentration students*

Concentration Requirements

Students must select one (1) of the following concentrations for 30 units:

- Business Administration, B.S.: Accounting Concentration
- Business Administration, B.S.: Business Economics Concentration
- Business Administration, B.S.: Entrepreneurship Concentration
- Business Administration, B.S.: Finance Concentration (Available Online)
- Business Administration, B.S.: General Management Concentration (Available Online)
- Business Administration, B.S.: Human Resources Management & Organizational Behavior Concentration
- Business Administration, B.S.: Information Technology Management Concentration (Available Online)
- Business Administration, B.S.: Marketing Management Concentration
- Business Administration, B.S.: Operations and Supply Chain Management Concentration (Available Online)

Accounting Concentration

The coursework in the Accounting concentration prepares students for accounting, auditing or tax positions in public accounting firms, corporations, government agencies or non-profit organizations. It is a rigorous accounting program that provides students the required education units to qualify for the Certified Public Accountants (CPA) exam. The program focuses on the knowledge of the U.S. financial reporting and auditing standards, federal taxation, business laws and regulations, and accountants' professional responsibilities. It also enables students to develop professional communication and collaborative teamwork skills.

Required Courses

The following 27 units are required.

- ACCT 311 - Intermediate Financial Accounting I *Units: 3*
- ACCT 312 - Intermediate Financial Accounting II *Units: 3*
- ACCT 320 - Business Law for Accountants *Units: 3*
- ACCT 321 - Auditing I *Units: 3*
- ACCT 331 - Federal Taxation for Individuals *Units: 3*
- ACCT 340 - Accounting Information Systems *Units: 3*
- ACCT 342 - Accounting Ethics *Units: 3*
- ACCT 370 - Accounting for Governmental and Not-for-Profit Entities *Units: 3*
- ACCT 411 - Advanced Financial Accounting *Units: 3*

Elective Course

Select one (1) course for 3 units that is an ACCT upper division (300-400 level) course excluding ACCT 335, 398, 435, 490, and excluding the Required Courses for accounting listed above.

Note: Students interested in taking the CPA exam are recommended to choose at least one (1) from the following four courses as an elective. Also, Students interested in a career in taxation are recommended to choose either ACCT 432 or 433.

- ACCT 302 - Cost Accounting Units: 3
- ACCT 421 - Auditing II Units: 3
- ACCT 432 - Federal Taxation for Corporations Units: 3
- ACCT 433 - Federal Taxation for Partnerships Units: 3

Students interested in a career in internal audit are recommended to choose at least one (1) from the following courses as an elective:

- ACCT 422 - Internal Auditing Units: 3
- ACCT 423 - Information Technology Audit Units: 3
- ACCT 424 - Forensic Accounting and Fraud Examination Units: 3

Other Undergraduate Degree Requirements

In addition to major requirements, every student must also complete the University's baccalaureate requirements for graduation, which are described in the Requirements, Exams & Testing chapter of this catalog.

Department Courses Listed by Course Type

Accounting & Finance Courses

Department of Accounting and Finance

Go to information for this department.

Courses

Accounting

- ACCT 210 - Introduction to Financial Accounting Units: 3
- ACCT 215 - Introduction to Managerial Accounting Units: 3
- ACCT 302 - Cost Accounting Units: 3
- ACCT 311 - Intermediate Financial Accounting I Units: 3
- ACCT 312 - Intermediate Financial Accounting II Units: 3
- ACCT 320 - Business Law for Accountants Units: 3
- ACCT 321 - Auditing I Units: 3
- ACCT 331 - Federal Taxation for Individuals Units: 3
- ACCT 335 - VITA - Individual Income Tax Return Preparation Units: 3
- ACCT 340 - Accounting Information Systems Units: 3
- ACCT 342 - Accounting Ethics Units: 3
- ACCT 370 - Accounting for Governmental and Not-for-Profit Entities Units: 3
- ACCT 398 - Internship Units: 1-3
- ACCT 411 - Advanced Financial Accounting Units: 3
- ACCT 421 - Auditing II Units: 3
- ACCT 422 - Internal Auditing Units: 3
- ACCT 423 - Information Technology Audit Units: 3

- ACCT 424 - Forensic Accounting and Fraud Examination *Units: 3*
- ACCT 432 - Federal Taxation for Corporations *Units: 3*
- ACCT 433 - Federal Taxation for Partnerships *Units: 3*
- ACCT 435 - VITA - Quality Review of Individual Income Tax Returns *Units: 3*
- ACCT 490 - Independent Study *Units: 1-4*
- ACCT 497 - Issues in Accounting *Units: 3*
- BUS 220 - Legal Environment of Business *Units: 3 ; G.E./G.R. Area: D1-3; Social Justice*
- BUS 330 - Financial Management *Units: 3*

Accounting: Graduate

- ACCT 611 - Financial Reporting and IFRS I *Units: 3*
- ACCT 612 - Financial Reporting and IFRS II *Units: 3*
- ACCT 613 - Advanced Topics in Accounting *Units: 3*
- ACCT 621 - Accountants' Ethics and Professional Responsibilities *Units: 3*
- ACCT 622 - Auditing Theory and Practice I *Units: 3*
- ACCT 623 - Auditing Theory and Practice II *Units: 3*
- ACCT 631 - Corporate Tax *Units: 3*
- ACCT 639 - Business Law and Regulation *Units: 3*
- ACCT 671 - Business Communications and Professional Development I *Units: 1.5*
- ACCT 672 - Business Communications and Professional Development II *Units: 1.5*
- ACCT 681 - Financial Statement Analysis and Business Valuation *Units: 3*
- ACCT 690 - Independent Study *Units: 1-4*
- ACCT 693 - Project *Units: 3*
- ACCT 697 - Issues in Accounting *Units: 3*
- ACCT 698 - Internship *Units: 1-3*
- BUS 604 - Financial Accounting *Units: 3*

Finance

- FIN 230 - Personal Finance *Units: 3 ; G.E./G.R. Area: E*
- FIN 380 - Real Estate Principles *Units: 3*
- FIN 382 - Real Estate Practice *Units: 3*
- FIN 384 - Real Estate Law *Units: 3*
- FIN 398 - Internship *Units: 1-3*
- FIN 405 - Corporate Finance *Units: 3*
- FIN 410 - Problems in Corporate Finance *Units: 3*
- FIN 420 - Investment Analysis *Units: 3*
- FIN 430 - Derivatives Markets *Units: 3*
- FIN 435 - Risk Management in Financial Institutions *Units: 3*
- FIN 445 - Financial Modeling *Units: 3*
- FIN 460 - International Business Finance *Units: 3*
- FIN 470 - Entrepreneurial Finance *Units: 3*
- FIN 475 - Advanced Investment Analysis and Ethics *Units: 3*
- FIN 480 - Real Estate Finance *Units: 3*
- FIN 482 - Real Estate Valuation *Units: 3*
- FIN 484 - Sustainable Real Estate Development *Units: 3*
- FIN 486 - Real Estate Markets and Housing Policies *Units: 3*
- FIN 488 - Seminar in Advanced Topics in Real Estate *Units: 3*
- FIN 490 - Independent Study *Units: 1-4*
- FIN 497 - Seminar in Financial Theory *Units: 3*

Finance: Graduate

- BUS 605 - Corporate Financial Management *Units: 3*

- FIN 620 - Seminar in Security Analysis and Portfolio Management *Units: 3*
- FIN 630 - Seminar in Options and Futures *Units: 3*
- FIN 640 - Financial Markets and Institutions *Units: 3*
- FIN 650 - Financial Management of Banking Institutions *Units: 3*
- FIN 660 - International Financial Management *Units: 3*
- FIN 670 - New Venture Financing *Units: 3*
- FIN 690 - Independent Study *Units: 1-4*
- FIN 697 - Issues in Finance *Units: 3*
- FIN 698 - Internship *Units: 1-3*

Business Administration, B.S.: Finance Concentration (Available Online)

Business Administration, B.S. Program (120 units)

Program Description

The College of Business and Economics, which offers the Bachelor of Science in Business Administration (B.S.B.A.) program, is committed to providing life-changing, quality business education to prepare students from diverse backgrounds to become successful business professionals and leaders. The B.S.B.A. program imparts students with the knowledge and skills necessary to understand the changing global business environment and to prepare students for success in their professional careers.

The B.S.B.A. major program is structured around a set of core courses enabling students to develop general business perspective and skills. Students are required to choose an area of specialization, i.e., concentration, corresponding to their desired career path. In addition, the program allows students flexibility to customize their specialization by choosing business elective courses. These electives may be chosen to further strengthen their preparation in their chosen concentration.

The undergraduate and the graduate programs in the College of Business and Economics are accredited by the Association to Advance Collegiate Schools of Business International (AACSB).

Program Learning Outcomes

Students graduating with a Bachelor of Science in Business Administration will be able to:

- Recognize and integrate foundation knowledge across functional areas.
- Apply critical thinking skills to solve business problems.
- Understand and apply quantitative methods and tools in evaluating business problems and making effective business decisions.
- Apply technology to analyze data and provide solutions to business problems.
- Apply effective oral communication skills in a diverse and global environment.
- Apply effective written communication skills in a diverse and global environment.
- Apply effective team skills to work in a diverse and global environment.
- Identify and assess ethical issues and properly articulate ethical decisions.

Expiration of Courses

Upper division major/concentration requirement courses will expire ten years after completion of the term in which they are earned. Expired courses cannot be used to fulfill degree requirements and must be

replaced by current credits. Requests for waivers of the ten-year limit for extenuating circumstances, other than mere failure to register, are made to the department chair in which the course resides and the director of undergraduate programs.

Transfer of Courses

Upper division courses will only be considered for equivalency or transfer credit if they are from AACSB accredited institutions. Exceptions will be made for programs that have current and signed agreements with the College of Business and Economics.

Degree Requirements

The B.S. degree requires a total of 120 units. In addition to General Education courses and other graduation requirements, the Business Administration major requires three sets of courses: (I) lower division core courses, (II) upper division core courses, and (III) courses to fulfill concentration requirements.

Degree Requirements Unit-Outline

- A baccalaureate of science degree requires a total of 120 units:
 - The major requirements consists of 75 units;
 - General Education (GE) & Graduation Requirements (GR) consists of 57 units;
 - Free Electives may consist of 0 units (*actual number of free elective units may depend on GE/GR units*).

Note: It may be possible to double-count units within the graduation requirements or that a course may satisfy both a graduation requirement and a major requirement. Students should contact their program and AACE advisors for information.

Business Administration Major Requirements (75 units)

Note: Please see the Errata pages for corrections made to the major requirements effective for all concentrations.

Lower Division Core Courses

The following 18 units of lower-division coursework are required:

- ACCT 210 - Introduction to Financial Accounting *Units: 3*
- ACCT 215 - Introduction to Managerial Accounting *Units: 3*
- ECON 200 - Principles of Microeconomics *Units: 3 ; G.E./G.R. Area: D1-3; Social Justice*
- ECON 205 - Principles of Macroeconomics *Units: 3 ; G.E./G.R. Area: D1-3*
- MATH 180 - Mathematics for Business with Calculus *Units: 3 ; G.E./G.R. Area: B4*
- STAT 110 - Elements of Statistics for Business and Economics *Units: 3*

Upper Division Core Courses

The following 27 units of upper-division coursework is required:

- BUS 310 - Organizational Behavior *Units: 3*
- BUS 325 - Marketing Principles *Units: 3*
- BUS 330 - Financial Management *Units: 3*
- BUS 335 - Communications in Team Building *Units: 3*
- BUS 360 - Operations Management *Units: 3*
- BUS 499 - Seminar in Strategic Business Management *Units: 3*
- ECON 380 - Managerial Economics and Business Strategy *Units: 3 ; G.E./G.R. Area: B6; Sustainability*
- MGMT 350 - Decision Science *Units: 3 ; G.E./G.R. Area: B6*

Plus, choose one (1) course from the following:

- BUS 385 - International Business *Units: 3 OR*
- ECON 385 - Global Economic Analysis *Units: 3 Recommended for Business Economics concentration students*

Concentration Requirements

Students must select one (1) of the following concentrations for 30 units:

- Business Administration, B.S.: Accounting Concentration
- Business Administration, B.S.: Business Economics Concentration
- Business Administration, B.S.: Entrepreneurship Concentration
- Business Administration, B.S.: Finance Concentration (Available Online)
- Business Administration, B.S.: General Management Concentration (Available Online)
- Business Administration, B.S.: Human Resources Management & Organizational Behavior Concentration
- Business Administration, B.S.: Information Technology Management Concentration (Available Online)
- Business Administration, B.S.: Marketing Management Concentration
- Business Administration, B.S.: Operations and Supply Chain Management Concentration (Available Online)

Finance Concentration

The coursework in the Finance concentration are designed to prepare students for careers in the financial management of corporations, commercial, retail and investment banking, asset management, and other areas in finance. The option develops decision-making skills by first providing a sound theoretical foundation of knowledge. Through hands-on coursework in areas such as financial analysis, investments, derivatives, international finance, risk management, financial modeling, and venture financing, students learn the critical thinking, problem solving, ethics, and effective communication skills valued most by employers.

Required Courses

The following 18 units are required:

- BUS 220 - Legal Environment of Business *Units: 3 ; G.E./G.R. Area: D1-3; Social Justice*
- BUS 320 - Business and Professional Ethics *Units: 3*
- BUS 340 - Information Technology Management *Units: 3*
- BUS 370 - Business, Government and Society *Units: 3*
- FIN 405 - Corporate Finance *Units: 3*
- FIN 420 - Investment Analysis *Units: 3*

Elective Courses

Select four (4) courses for 12 units from the list below:

- FIN 410 - Problems in Corporate Finance *Units: 3*
- FIN 430 - Derivatives Markets *Units: 3*
- FIN 435 - Risk Management in Financial Institutions *Units: 3*
- FIN 445 - Financial Modeling *Units: 3*
- FIN 497 - Seminar in Financial Theory *Units: 3*
- FIN 460 - International Business Finance *Units: 3*
- FIN 470 - Entrepreneurial Finance *Units: 3*
- FIN 475 - Advanced Investment Analysis and Ethics *Units: 3*
- FIN 480 - Real Estate Finance *Units: 3*

Recommendations

Please note the following recommendations:

Students interested in a career in financial management, financial analysis and corporate finance are recommended to choose from the following courses as electives: FIN 410, FIN 430, FIN 435, FIN 445, FIN 460, FIN 470.

Students interested in a career in investment banking, financial institutions, asset management and risk management, are recommended to choose from the following courses as electives: FIN 430, FIN 435, FIN 445, FIN 460, FIN 470.

Students interested in preparing for the CFA level I exam are recommended to take the following courses as electives: FIN 430, FIN 435, FIN 475, FIN 480.

Other Undergraduate Degree Requirements

In addition to major requirements, every student must also complete the University's baccalaureate requirements for graduation, which are described in the Requirements, Exams & Testing chapter of this catalog.

Department Courses Listed by Course Type

Accounting & Finance Courses

Department of Accounting and Finance

Go to information for this department.

Courses

Accounting

- ACCT 210 - Introduction to Financial Accounting *Units: 3*
- ACCT 215 - Introduction to Managerial Accounting *Units: 3*
- ACCT 302 - Cost Accounting *Units: 3*
- ACCT 311 - Intermediate Financial Accounting I *Units: 3*
- ACCT 312 - Intermediate Financial Accounting II *Units: 3*
- ACCT 320 - Business Law for Accountants *Units: 3*
- ACCT 321 - Auditing I *Units: 3*
- ACCT 331 - Federal Taxation for Individuals *Units: 3*
- ACCT 335 - VITA - Individual Income Tax Return Preparation *Units: 3*
- ACCT 340 - Accounting Information Systems *Units: 3*
- ACCT 342 - Accounting Ethics *Units: 3*
- ACCT 370 - Accounting for Governmental and Not-for-Profit Entities *Units: 3*
- ACCT 398 - Internship *Units: 1-3*
- ACCT 411 - Advanced Financial Accounting *Units: 3*
- ACCT 421 - Auditing II *Units: 3*
- ACCT 422 - Internal Auditing *Units: 3*
- ACCT 423 - Information Technology Audit *Units: 3*
- ACCT 424 - Forensic Accounting and Fraud Examination *Units: 3*
- ACCT 432 - Federal Taxation for Corporations *Units: 3*
- ACCT 433 - Federal Taxation for Partnerships *Units: 3*
- ACCT 435 - VITA - Quality Review of Individual Income Tax Returns *Units: 3*
- ACCT 490 - Independent Study *Units: 1-4*
- ACCT 497 - Issues in Accounting *Units: 3*
- BUS 220 - Legal Environment of Business *Units: 3 ; G.E./G.R. Area: D1-3; Social Justice*
- BUS 330 - Financial Management *Units: 3*

Accounting: Graduate

- ACCT 611 - Financial Reporting and IFRS I *Units: 3*
- ACCT 612 - Financial Reporting and IFRS II *Units: 3*
- ACCT 613 - Advanced Topics in Accounting *Units: 3*
- ACCT 621 - Accountants' Ethics and Professional Responsibilities *Units: 3*
- ACCT 622 - Auditing Theory and Practice I *Units: 3*
- ACCT 623 - Auditing Theory and Practice II *Units: 3*
- ACCT 631 - Corporate Tax *Units: 3*
- ACCT 639 - Business Law and Regulation *Units: 3*
- ACCT 671 - Business Communications and Professional Development I *Units: 1.5*
- ACCT 672 - Business Communications and Professional Development II *Units: 1.5*
- ACCT 681 - Financial Statement Analysis and Business Valuation *Units: 3*
- ACCT 690 - Independent Study *Units: 1-4*
- ACCT 693 - Project *Units: 3*
- ACCT 697 - Issues in Accounting *Units: 3*
- ACCT 698 - Internship *Units: 1-3*
- BUS 604 - Financial Accounting *Units: 3*

Finance

- FIN 230 - Personal Finance *Units: 3 ; G.E./G.R. Area: E*
- FIN 380 - Real Estate Principles *Units: 3*
- FIN 382 - Real Estate Practice *Units: 3*
- FIN 384 - Real Estate Law *Units: 3*
- FIN 398 - Internship *Units: 1-3*
- FIN 405 - Corporate Finance *Units: 3*
- FIN 410 - Problems in Corporate Finance *Units: 3*
- FIN 420 - Investment Analysis *Units: 3*
- FIN 430 - Derivatives Markets *Units: 3*
- FIN 435 - Risk Management in Financial Institutions *Units: 3*
- FIN 445 - Financial Modeling *Units: 3*
- FIN 460 - International Business Finance *Units: 3*
- FIN 470 - Entrepreneurial Finance *Units: 3*
- FIN 475 - Advanced Investment Analysis and Ethics *Units: 3*
- FIN 480 - Real Estate Finance *Units: 3*
- FIN 482 - Real Estate Valuation *Units: 3*
- FIN 484 - Sustainable Real Estate Development *Units: 3*
- FIN 486 - Real Estate Markets and Housing Policies *Units: 3*
- FIN 488 - Seminar in Advanced Topics in Real Estate *Units: 3*
- FIN 490 - Independent Study *Units: 1-4*
- FIN 497 - Seminar in Financial Theory *Units: 3*

Finance: Graduate

- BUS 605 - Corporate Financial Management *Units: 3*
- FIN 620 - Seminar in Security Analysis and Portfolio Management *Units: 3*
- FIN 630 - Seminar in Options and Futures *Units: 3*
- FIN 640 - Financial Markets and Institutions *Units: 3*
- FIN 650 - Financial Management of Banking Institutions *Units: 3*
- FIN 660 - International Financial Management *Units: 3*
- FIN 670 - New Venture Financing *Units: 3*
- FIN 690 - Independent Study *Units: 1-4*
- FIN 697 - Issues in Finance *Units: 3*
- FIN 698 - Internship *Units: 1-3*

Master

Accountancy, M.S.

Please note: This program is only available through Continuing Education.

Accountancy, M.S. Program

Program Description

The MS in Accountancy program is a cohort-based, 16-month graduate program. The program prepares students for accounting or auditing positions in public accounting firms, corporations, government agencies or non-profit organizations. It is a high quality rigorous accounting program that provides students the required education to qualify for the Certified Public Accountants (CPA) exam and to meet

the 150-hour California CPA licensure requirements. The program focuses on the knowledge of the U.S. and international financial reporting and auditing standards, taxation, business laws and regulations, and accountants' professional responsibilities. It also enables students to develop professional communication and collaborative teamwork skills.

Career Opportunities

Graduates of the M.S. in Accountancy program can pursue a wide range of professional accounting, auditing and tax careers as accountants, auditors, or tax professionals in public accounting firms, public or private corporations, federal or state government agencies and not-for-profit organizations.

Admission Requirements

Students with a baccalaureate degree in any subject from an accredited college or university may apply. Work experience is desirable, but not required. To be considered for admission to the M.S. in Accountancy program, each applicant is evaluated on the basis of:

- Past academic performance as reflected in undergraduate grade point average and subsequent coursework, a minimum of 2.5 GPA is required;
- Results of the Graduate Management Admissions Test (GMAT) [CSUEB MSA program GMAT code is TCV-K9-86]:
 - Both verbal and quantitative percentages must be greater than 20%.
 - Index score must be greater than 1,050 [Index Score = Upper Division GPA x 200 + Total GMAT].
 - GRE equivalent scores are accepted.
 - GMAT scores waived if an applicant has passed all four parts of the US CPA Examination.
 - GMAT score may be waived if an applicant has completed an MBA degree from an AACSB accredited business school.
- For International students: demonstrated proof of English proficiency (e.g. TOEFL score of 550 (paper-based), 213 (computer-based) or 79 (internet-based) or IELTS of 6.5 or above;
- Relevant business experience;
- Personal interview.

Proficiency

All M.S. in Accountancy program students must fulfill the University Writing Skills Requirement (UWSR). The Writing Skills Requirement could be met as an undergraduate or graduate student at one of the CSU system campuses, with a score of 4.5 or better on the GMAT essay, by passing the Writing Skills Test (WST), or through coursework. Information about the Writing Skills Test and the courses can be found on the Testing Office website. The Website contains information on test dates, registration procedures and fees. Further information can be obtained from the Testing Office, Library, Room LI 3165A, phone 510-885-3661. If students have not satisfied the UWSR before they begin their graduate work, they must either take the WST or enroll in a first tier course by the end of their first semester in the program.

Graduation Requirements

To be eligible for the M.S. in Accountancy, a student must have been Advanced to Candidacy (see Graduate Degree Information chapter of the catalog) and have completed 33 semester units meeting the following criteria:

- Have a combined 3.0 grade point average (minimum) in all units taken to satisfy the requirements of the student's degree program.
- All have a course grade of "C" or better.
- All units earned within the five years immediately preceding the completion of the requirements for the degree.
- Have completed a satisfactory program of study, defined below.

Program Learning Outcomes:

Students graduating with a Master of Science in Accountancy will be able to:

1. Demonstrate knowledge of U.S. and international financial reporting standards and auditing standards for corporate financial reporting and attestation.
2. Develop critical thinking and quantitative reasoning to financial reporting and business valuation.
3. Illustrate the knowledge of accountants' professional ethics standards and apply them to business situations.
4. Build written communication skills to create professional accounting reports.
5. Build oral communication skills to deliver a well-organized, informative, and persuasive oral presentation within a professional context.
6. Improve professional collaboration and teamwork skills in working with individuals and in groups.

Accountancy Degree Requirements (33 units)

Foundation Courses

In order to be considered for "Classified Graduate" standing in the Master of Science in Accountancy program, a student must satisfy the following undergraduate courses or equivalent for up to 12 units. These units are NOT included in the degree total.

Note: Foundation courses may be satisfied by courses taken in an undergraduate program with a grade "B-" or better within the last five years.

- ACCT 210 - Introduction to Financial Accounting Units: 3
- ACCT 215 - Introduction to Managerial Accounting Units: 3
- ACCT 331 - Federal Taxation for Individuals Units: 3
- ACCT 340 - Accounting Information Systems Units: 3

Core Courses

The following 30 units of core coursework is required:

- ACCT 611 - Financial Reporting and IFRS I Units: 3
- ACCT 612 - Financial Reporting and IFRS II Units: 3
- ACCT 613 - Advanced Topics in Accounting Units: 3

- ACCT 621 - Accountants' Ethics and Professional Responsibilities *Units: 3*
- ACCT 622 - Auditing Theory and Practice I *Units: 3*
- ACCT 623 - Auditing Theory and Practice II *Units: 3*
- ACCT 631 - Corporate Tax *Units: 3*
- ACCT 639 - Business Law and Regulation *Units: 3*
- ACCT 671 - Business Communications and Professional Development I
Units: 1.5
- ACCT 672 - Business Communications and Professional Development II
Units: 1.5
- ACCT 681 - Financial Statement Analysis and Business Valuation *Units: 3*

Capstone Requirement

To complete the program the following capstone project course for 3 units is required:

- ACCT 693 - Project *Units: 3*

Other Graduate & Post-Baccalaureate Degree Requirements

In addition to departmental requirements, every student must also satisfy the University requirements for graduation as described throughout this catalog. These include the 70% unit residence requirement; the five-year rule on currency of subject matter; the minimum number of units in 600-level courses; the "C" minimum grade for each graduate course; the 3.00 cumulative grade point average; and the University Writing Skills Requirement.

Note: For information on meeting the University Writing Skills Requirement, see the Testing Office website at www.csueastbay.edu/testing or call (510) 885-3661.

Department Courses Listed by Course Type

Accounting & Finance Courses

Department of Accounting and Finance

Go to information for this department.

Courses

Accounting

- ACCT 210 - Introduction to Financial Accounting *Units: 3*
- ACCT 215 - Introduction to Managerial Accounting *Units: 3*
- ACCT 302 - Cost Accounting *Units: 3*
- ACCT 311 - Intermediate Financial Accounting I *Units: 3*
- ACCT 312 - Intermediate Financial Accounting II *Units: 3*
- ACCT 320 - Business Law for Accountants *Units: 3*
- ACCT 321 - Auditing I *Units: 3*
- ACCT 331 - Federal Taxation for Individuals *Units: 3*

- ACCT 335 - VITA - Individual Income Tax Return Preparation *Units: 3*
- ACCT 340 - Accounting Information Systems *Units: 3*
- ACCT 342 - Accounting Ethics *Units: 3*
- ACCT 370 - Accounting for Governmental and Not-for-Profit Entities *Units: 3*
- ACCT 398 - Internship *Units: 1-3*
- ACCT 411 - Advanced Financial Accounting *Units: 3*
- ACCT 421 - Auditing II *Units: 3*
- ACCT 422 - Internal Auditing *Units: 3*
- ACCT 423 - Information Technology Audit *Units: 3*
- ACCT 424 - Forensic Accounting and Fraud Examination *Units: 3*
- ACCT 432 - Federal Taxation for Corporations *Units: 3*
- ACCT 433 - Federal Taxation for Partnerships *Units: 3*
- ACCT 435 - VITA - Quality Review of Individual Income Tax Returns *Units: 3*
- ACCT 490 - Independent Study *Units: 1-4*
- ACCT 497 - Issues in Accounting *Units: 3*
- BUS 220 - Legal Environment of Business *Units: 3 ; G.E./G.R. Area: D1-3; Social Justice*
- BUS 330 - Financial Management *Units: 3*

Accounting: Graduate

- ACCT 611 - Financial Reporting and IFRS I *Units: 3*
- ACCT 612 - Financial Reporting and IFRS II *Units: 3*
- ACCT 613 - Advanced Topics in Accounting *Units: 3*
- ACCT 621 - Accountants' Ethics and Professional Responsibilities *Units: 3*
- ACCT 622 - Auditing Theory and Practice I *Units: 3*
- ACCT 623 - Auditing Theory and Practice II *Units: 3*
- ACCT 631 - Corporate Tax *Units: 3*
- ACCT 639 - Business Law and Regulation *Units: 3*
- ACCT 671 - Business Communications and Professional Development I *Units: 1.5*
- ACCT 672 - Business Communications and Professional Development II *Units: 1.5*
- ACCT 681 - Financial Statement Analysis and Business Valuation *Units: 3*
- ACCT 690 - Independent Study *Units: 1-4*
- ACCT 693 - Project *Units: 3*
- ACCT 697 - Issues in Accounting *Units: 3*
- ACCT 698 - Internship *Units: 1-3*
- BUS 604 - Financial Accounting *Units: 3*

Finance

- FIN 230 - Personal Finance *Units: 3 ; G.E./G.R. Area: E*
- FIN 380 - Real Estate Principles *Units: 3*
- FIN 382 - Real Estate Practice *Units: 3*
- FIN 384 - Real Estate Law *Units: 3*
- FIN 398 - Internship *Units: 1-3*
- FIN 405 - Corporate Finance *Units: 3*
- FIN 410 - Problems in Corporate Finance *Units: 3*
- FIN 420 - Investment Analysis *Units: 3*
- FIN 430 - Derivatives Markets *Units: 3*
- FIN 435 - Risk Management in Financial Institutions *Units: 3*
- FIN 445 - Financial Modeling *Units: 3*
- FIN 460 - International Business Finance *Units: 3*
- FIN 470 - Entrepreneurial Finance *Units: 3*
- FIN 475 - Advanced Investment Analysis and Ethics *Units: 3*

- FIN 480 - Real Estate Finance *Units: 3*
- FIN 482 - Real Estate Valuation *Units: 3*
- FIN 484 - Sustainable Real Estate Development *Units: 3*
- FIN 486 - Real Estate Markets and Housing Policies *Units: 3*
- FIN 488 - Seminar in Advanced Topics in Real Estate *Units: 3*
- FIN 490 - Independent Study *Units: 1-4*
- FIN 497 - Seminar in Financial Theory *Units: 3*

Finance: Graduate

- BUS 605 - Corporate Financial Management *Units: 3*
- FIN 620 - Seminar in Security Analysis and Portfolio Management *Units: 3*
- FIN 630 - Seminar in Options and Futures *Units: 3*
- FIN 640 - Financial Markets and Institutions *Units: 3*
- FIN 650 - Financial Management of Banking Institutions *Units: 3*
- FIN 660 - International Financial Management *Units: 3*
- FIN 670 - New Venture Financing *Units: 3*
- FIN 690 - Independent Study *Units: 1-4*
- FIN 697 - Issues in Finance *Units: 3*
- FIN 698 - Internship *Units: 1-3*

Business Administration, M.B.A.: Finance Concentration

Business Administration, M.B.A. Program

Mission

CBE provides life-changing, quality business education to prepare students from diverse backgrounds to become successful business professionals and leaders.

Vision and Values

We aspire to be a leading business school known for making a difference in the lives of our students and for our impact on the world. In support of our mission, we value:

- Ethical behavior and personal integrity
- Collegiality and mutual respect
- Collaboration for learning, scholarship, and community engagement
- Social and environmental responsibility
- Inclusive learning environment for a diverse student population
- Innovative thinking and a global mindset

All CBE programs are accredited by AACSB International - The Association to Advance Collegiate Schools of Business.

The College of Business and Economics offers the following master's degrees:

Master of Business Administration

M.B.A. students must select one of the following concentrations to fulfill the degree:

Analytics for Managers • Finance • General Business • Global Innovator • Human Resources and Organizational Behavior • Marketing Management • Operations and Supply Chain Management • Strategy and Innovation

Master of Science in Business Analytics

Master of Science in Economics

Program Description

The M.B.A. program supports students' career advancement by preparing them for positions of leadership in an increasingly diverse and globally competitive economy. The program is centered on the rigorous knowledge of the basic functional areas of business, an appreciation of management challenges in a global context, and opportunities to develop students' interpersonal and executive leadership skills. It also enables students to deepen and broaden their knowledge and skills through elective courses in an area of concentration. The program offers a range of formats to cater to the needs of full and part time students and students seeking an executive style MBA.

Career Opportunities

There is a strong growth in opportunities for management careers in both the general and the functional areas represented in the program's concentrations. The MBA program prepares graduates with strong foundation in general management knowledge and skills and gives them an extra edge in concentration areas that are growing in demand. Among the strong careers for those with MBA include Financial Manager, Health Services Manager, High-End Management Consultant, Human Resources Manager, Investment Banker, Investment Fund Manager, Marketing Manager, Marketing Researcher, Sales Manager, Operations and Supply Chain Manager, and Upper Management and Executive Leadership. The growing career opportunities for Finance, Marketing, HR, Operations, and Strategy validate the strength and the value of the CSUEB MBA program.

Admission

The M.B.A. is open to students who hold a baccalaureate degree from an accredited college or university. Each applicant is evaluated on the basis of past academic performance as reflected in undergraduate grade point average and subsequent coursework; and results of the Graduate Management Admissions Test (GMAT) in verbal, quantitative, and the "Index Score" that involves the total GMAT score, $\text{Index Score} = (\text{Upper Division GPA} \times 200) + \text{Total GMAT}$. Admission to the program is selective. The average GPA and GMAT score of applicants admitted to the program varies from year to year. For last year's admitted students profile, please visit the CBE Graduate Student Success and Services Office. GRE score, if provided, is accepted in place of GMAT. GMAT may be waived for applicants with five years or more work experience.

Proficiencies

All Conditionally Classified M.B.A. students must fulfill the University Writing Skills Requirement (UWSR) to achieve "Classified Graduate" status. The Writing Skills Requirement could be met as an undergraduate or graduate student at one of the CSU system campuses, with a score of 4.5 or better on the GMAT essay, by passing the Writing Skills Test (WST) or through coursework. Information about the Writing Skills Test and the courses can be found on the Testing Office website. The Website contains

information on test dates, registration procedures and fees. Further information can be obtained from the Testing Office. If students have not satisfied the UWSR before they begin their graduate work, they must either take the WST or enroll in a first tier course by the end of their first semester in the program.

The MBA program is designed to provide essential business knowledge to students without assuming prior business background. Therefore no specific prerequisite courses are required, but proficiency in math and statistics is expected.

Student Standing and Progress Toward the Degree

There are three categories of student status which reflect student progress toward the degree: "Conditionally Classified Graduate," "Classified Graduate," and "Advancement to Candidacy."

- Students achieve "Conditionally Classified Graduate" status when they have been admitted to the MBA degree program, but have not yet completed the University Writing Skills Requirement.
 - Students achieve "Classified Graduate" status when they have satisfactorily completed the University Writing Skills Requirement.
 - Students are Advanced to Candidacy when they have completed the 42 semester units meeting the following criteria:
 - All have a course grade of "C" or better.
 - Complete a minimum of 30 units in residence after admission to the program.
 - Have a combined 3.0 grade point average (minimum) in all units taken to satisfy the requirements of the student's degree program.
 - Have no more than 12 units for extension and/or transfer credit (any extension and/or transfer credit must be approved by the Program Director) and/or coursework taken in "Unclassified Post-baccalaureate" status.
 - All units earned within the five years immediately preceding the completion of the requirements for the degree.
 - Have completed a satisfactory program of study as determined by the College of Business and Economics and the university.
 - To be eligible for the M.B.A. a student must have been Advanced to Candidacy (see Graduate Degree Information chapter of the catalog)
- Note: Students who fail to maintain progress by falling below a 3.0 GPA in their graduate courses for two or more consecutive semesters will be academically disqualified from the university.*

Program Learning Outcomes

Students graduating with an M.B.A. from Cal State East Bay will be able to:

- Identify global business opportunities, analyze global business challenges, and develop business strategies.
- Demonstrate leadership and teamwork skills.
- Apply advanced written communication skills.
- Apply advanced oral communication skills.
- Demonstrate cross-cultural awareness and sensitivity in their interpersonal and group communication.
- Perform quantitative analyses and apply advanced technological tools to solve complex business problems.
- Analyze and integrate knowledge across disciplines to make managerial decisions to reach solutions to complex business problems.
- Recognize and analyze ethical issues in decision making.

Business Administration Degree Requirements (42 units)

Core Courses

The following 27 core units are required for all M.B.A. students:

- BUS 601 - Leadership and Communication in Organizations *Units: 3*
- BUS 602 - Business Analytics for Managers *Units: 3*
- BUS 603 - Managing Complex Issues in Global Context *Units: 3 ; G.E./G.R. Area: UWSR*
- BUS 604 - Financial Accounting *Units: 3*
- BUS 605 - Corporate Financial Management *Units: 3*
- BUS 606 - Managerial Economics *Units: 3*
- BUS 607 - Marketing Management *Units: 3*
- BUS 608 - Operations and Supply Chain Management *Units: 3*
- BUS 609 - Negotiation and Conflict Resolution *Units: 3*

Concentrations

Students must select one (1) of the following 12-unit concentrations:

- Business Administration, M.B.A.: Analytics for Managers Concentration
- Business Administration, M.B.A.: Finance Concentration
- Business Administration, M.B.A.: General Business Concentration
- Business Administration, M.B.A.: Global Innovators Concentration (Self Support only)
- Business Administration, M.B.A.: Human Resources Management and Organizational Behavior Concentration
- Business Administration, M.B.A.: Marketing Management Concentration
- Business Administration, M.B.A.: Operations and Supply Chain Management Concentration
- Business Administration, M.B.A.: Strategy & Innovation Concentration

Capstone Requirement

The following capstone is required for 3 units to complete the degree:

- BUS 693 - Strategic Management Capstone (Project) *Units: 3*

Finance Concentration

Prerequisite Requirement

In addition to the successful completion of the M.B.A. core course requirements, an M.B.A. student who chooses to graduate from the Finance concentration will be required to satisfy the prerequisite core finance course BUS 605. BUS 605 course is a prerequisite for all FIN elective courses.

Required Course

All Finance concentration students will be required to complete the following course:

- FIN 620 - Seminar in Security Analysis and Portfolio Management *Units: 3*

Elective Courses

Students can choose three (3) courses from the following electives:

- FIN 630 - Seminar in Options and Futures *Units: 3*
- FIN 640 - Financial Markets and Institutions *Units: 3*
- FIN 650 - Financial Management of Banking Institutions *Units: 3*
- FIN 660 - International Financial Management *Units: 3*
- FIN 670 - New Venture Financing *Units: 3*

Other Graduate & Post-Baccalaureate Degree Requirements

In addition to departmental requirements, every student must also satisfy the University requirements for graduation as described throughout this catalog. These include the 70% unit residence requirement; the five-year rule on currency of subject matter; the minimum number of units in 600-level courses; the "C" minimum grade for each graduate course; the 3.00 cumulative grade point average; and the University Writing Skills Requirement.

Note: For information on meeting the University Writing Skills Requirement, see the Testing Office website at www.csueastbay.edu/testing or call (510) 885-3661.

Department Courses Listed by Course Type

Accounting & Finance Courses

Department of Accounting and Finance

Go to information for this department.

Courses

Accounting

- ACCT 210 - Introduction to Financial Accounting *Units: 3*
- ACCT 215 - Introduction to Managerial Accounting *Units: 3*
- ACCT 302 - Cost Accounting *Units: 3*
- ACCT 311 - Intermediate Financial Accounting I *Units: 3*
- ACCT 312 - Intermediate Financial Accounting II *Units: 3*
- ACCT 320 - Business Law for Accountants *Units: 3*
- ACCT 321 - Auditing I *Units: 3*
- ACCT 331 - Federal Taxation for Individuals *Units: 3*
- ACCT 335 - VITA - Individual Income Tax Return Preparation *Units: 3*
- ACCT 340 - Accounting Information Systems *Units: 3*
- ACCT 342 - Accounting Ethics *Units: 3*

- ACCT 370 - Accounting for Governmental and Not-for-Profit Entities *Units: 3*
- ACCT 398 - Internship *Units: 1-3*
- ACCT 411 - Advanced Financial Accounting *Units: 3*
- ACCT 421 - Auditing II *Units: 3*
- ACCT 422 - Internal Auditing *Units: 3*
- ACCT 423 - Information Technology Audit *Units: 3*
- ACCT 424 - Forensic Accounting and Fraud Examination *Units: 3*
- ACCT 432 - Federal Taxation for Corporations *Units: 3*
- ACCT 433 - Federal Taxation for Partnerships *Units: 3*
- ACCT 435 - VITA - Quality Review of Individual Income Tax Returns *Units: 3*
- ACCT 490 - Independent Study *Units: 1-4*
- ACCT 497 - Issues in Accounting *Units: 3*
- BUS 220 - Legal Environment of Business *Units: 3 ; G.E./G.R. Area: D1-3; Social Justice*
- BUS 330 - Financial Management *Units: 3*

Accounting: Graduate

- ACCT 611 - Financial Reporting and IFRS I *Units: 3*
- ACCT 612 - Financial Reporting and IFRS II *Units: 3*
- ACCT 613 - Advanced Topics in Accounting *Units: 3*
- ACCT 621 - Accountants' Ethics and Professional Responsibilities *Units: 3*
- ACCT 622 - Auditing Theory and Practice I *Units: 3*
- ACCT 623 - Auditing Theory and Practice II *Units: 3*
- ACCT 631 - Corporate Tax *Units: 3*
- ACCT 639 - Business Law and Regulation *Units: 3*
- ACCT 671 - Business Communications and Professional Development I *Units: 1.5*
- ACCT 672 - Business Communications and Professional Development II *Units: 1.5*
- ACCT 681 - Financial Statement Analysis and Business Valuation *Units: 3*
- ACCT 690 - Independent Study *Units: 1-4*
- ACCT 693 - Project *Units: 3*
- ACCT 697 - Issues in Accounting *Units: 3*
- ACCT 698 - Internship *Units: 1-3*
- BUS 604 - Financial Accounting *Units: 3*

Finance

- FIN 230 - Personal Finance *Units: 3 ; G.E./G.R. Area: E*
- FIN 380 - Real Estate Principles *Units: 3*
- FIN 382 - Real Estate Practice *Units: 3*
- FIN 384 - Real Estate Law *Units: 3*
- FIN 398 - Internship *Units: 1-3*
- FIN 405 - Corporate Finance *Units: 3*
- FIN 410 - Problems in Corporate Finance *Units: 3*
- FIN 420 - Investment Analysis *Units: 3*
- FIN 430 - Derivatives Markets *Units: 3*
- FIN 435 - Risk Management in Financial Institutions *Units: 3*
- FIN 445 - Financial Modeling *Units: 3*
- FIN 460 - International Business Finance *Units: 3*
- FIN 470 - Entrepreneurial Finance *Units: 3*
- FIN 475 - Advanced Investment Analysis and Ethics *Units: 3*
- FIN 480 - Real Estate Finance *Units: 3*
- FIN 482 - Real Estate Valuation *Units: 3*
- FIN 484 - Sustainable Real Estate Development *Units: 3*

- FIN 486 - Real Estate Markets and Housing Policies *Units: 3*
- FIN 488 - Seminar in Advanced Topics in Real Estate *Units: 3*
- FIN 490 - Independent Study *Units: 1-4*
- FIN 497 - Seminar in Financial Theory *Units: 3*

Finance: Graduate

- BUS 605 - Corporate Financial Management *Units: 3*
- FIN 620 - Seminar in Security Analysis and Portfolio Management *Units: 3*
- FIN 630 - Seminar in Options and Futures *Units: 3*
- FIN 640 - Financial Markets and Institutions *Units: 3*
- FIN 650 - Financial Management of Banking Institutions *Units: 3*
- FIN 660 - International Financial Management *Units: 3*
- FIN 670 - New Venture Financing *Units: 3*
- FIN 690 - Independent Study *Units: 1-4*
- FIN 697 - Issues in Finance *Units: 3*
- FIN 698 - Internship *Units: 1-3*

Minor

Real Estate Minor

Minor Requirements (18 units)

The Real Estate minor is designed to prepare students for careers as real estate analysts, portfolio managers, property managers, urban planners, appraisers, acquisition specialists, developers, brokers, market and site location analysts, residential lenders, commercial lenders, and housing analysts. Completing the minor waives the two-year California Real Estate Salesperson's experience requirement needed to qualify to take the California Real Estate Broker's exam. The minor program is designed to complement your primary field of study.

Note:

- **No more than 9 units used to fulfill other requirements (e.g., for general education, a major, concentrations, or other minors) can be counted toward the requirements for the Real Estate minor.**
- **Courses taken for CR/NC (credit/no credit) will not be counted toward the requirements for the Bachelor of Science in Business Administration (BSBA) program because courses for BSBA must be completed with a letter grade of "C-" or better ("C" or better for BUS 499).**
- **ECON 335 requires ECON 200 (Principles of Microeconomics) as a prerequisite. Taking ECON 335 may lead to a total of more than 18 units to complete the Real Estate minor.**

Required Course

The following Principles course is required for 3 units:

- **FIN 380 - Real Estate Principles** *Units: 3*

Elective Courses

Select five (5) courses from the following list for 15 units:

- ECON 335 - Introduction to Urban Economics *Units: 3*
- FIN 382 - Real Estate Practice *Units: 3*
- FIN 384 - Real Estate Law *Units: 3*
- FIN 480 - Real Estate Finance *Units: 3*
- FIN 482 - Real Estate Valuation *Units: 3*
- FIN 484 - Sustainable Real Estate Development *Units: 3*
- FIN 486 - Real Estate Markets and Housing Policies *Units: 3*
- FIN 488 - Seminar in Advanced Topics in Real Estate *Units: 3*

Department Courses Listed by Course Type

Accounting & Finance Courses

Department of Accounting and Finance

Go to information for this department.

Courses

Accounting

- • ACCT 210 - Introduction to Financial Accounting *Units: 3*
- • ACCT 215 - Introduction to Managerial Accounting *Units: 3*
- • ACCT 302 - Cost Accounting *Units: 3*
- • ACCT 311 - Intermediate Financial Accounting I *Units: 3*
- • ACCT 312 - Intermediate Financial Accounting II *Units: 3*
- • ACCT 320 - Business Law for Accountants *Units: 3*
- • ACCT 321 - Auditing I *Units: 3*
- • ACCT 331 - Federal Taxation for Individuals *Units: 3*
- • ACCT 335 - VITA - Individual Income Tax Return Preparation *Units: 3*
- • ACCT 340 - Accounting Information Systems *Units: 3*
- • ACCT 342 - Accounting Ethics *Units: 3*
- • ACCT 370 - Accounting for Governmental and Not-for-Profit Entities *Units: 3*
- • ACCT 398 - Internship *Units: 1-3*
- • ACCT 411 - Advanced Financial Accounting *Units: 3*
- • ACCT 421 - Auditing II *Units: 3*
- • ACCT 422 - Internal Auditing *Units: 3*
- • ACCT 423 - Information Technology Audit *Units: 3*
- • ACCT 424 - Forensic Accounting and Fraud Examination *Units: 3*
- • ACCT 432 - Federal Taxation for Corporations *Units: 3*
- • ACCT 433 - Federal Taxation for Partnerships *Units: 3*
- • ACCT 435 - VITA - Quality Review of Individual Income Tax Returns *Units: 3*
- • ACCT 490 - Independent Study *Units: 1-4*
- • ACCT 497 - Issues in Accounting *Units: 3*
- • BUS 220 - Legal Environment of Business *Units: 3 ; G.E./G.R. Area: D1-3; Social Justice*
- • BUS 330 - Financial Management *Units: 3*

Accounting: Graduate

- ACCT 611 - Financial Reporting and IFRS I *Units: 3*
- ACCT 612 - Financial Reporting and IFRS II *Units: 3*
- ACCT 613 - Advanced Topics in Accounting *Units: 3*
- ACCT 621 - Accountants' Ethics and Professional Responsibilities *Units: 3*
- ACCT 622 - Auditing Theory and Practice I *Units: 3*
- ACCT 623 - Auditing Theory and Practice II *Units: 3*
- ACCT 631 - Corporate Tax *Units: 3*
- ACCT 639 - Business Law and Regulation *Units: 3*
- ACCT 671 - Business Communications and Professional Development I *Units: 1.5*
- ACCT 672 - Business Communications and Professional Development II *Units: 1.5*
- ACCT 681 - Financial Statement Analysis and Business Valuation *Units: 3*
- ACCT 690 - Independent Study *Units: 1-4*
- ACCT 693 - Project *Units: 3*
- ACCT 697 - Issues in Accounting *Units: 3*
- ACCT 698 - Internship *Units: 1-3*
- BUS 604 - Financial Accounting *Units: 3*

Finance

- FIN 230 - Personal Finance *Units: 3 ; G.E./G.R. Area: E*
- FIN 380 - Real Estate Principles *Units: 3*
- FIN 382 - Real Estate Practice *Units: 3*
- FIN 384 - Real Estate Law *Units: 3*
- FIN 398 - Internship *Units: 1-3*
- FIN 405 - Corporate Finance *Units: 3*
- FIN 410 - Problems in Corporate Finance *Units: 3*
- FIN 420 - Investment Analysis *Units: 3*
- FIN 430 - Derivatives Markets *Units: 3*
- FIN 435 - Risk Management in Financial Institutions *Units: 3*
- FIN 445 - Financial Modeling *Units: 3*
- FIN 460 - International Business Finance *Units: 3*
- FIN 470 - Entrepreneurial Finance *Units: 3*
- FIN 475 - Advanced Investment Analysis and Ethics *Units: 3*
- FIN 480 - Real Estate Finance *Units: 3*
- FIN 482 - Real Estate Valuation *Units: 3*
- FIN 484 - Sustainable Real Estate Development *Units: 3*
- FIN 486 - Real Estate Markets and Housing Policies *Units: 3*
- FIN 488 - Seminar in Advanced Topics in Real Estate *Units: 3*
- FIN 490 - Independent Study *Units: 1-4*
- FIN 497 - Seminar in Financial Theory *Units: 3*

Finance: Graduate

- BUS 605 - Corporate Financial Management *Units: 3*
- FIN 620 - Seminar in Security Analysis and Portfolio Management *Units: 3*
- FIN 630 - Seminar in Options and Futures *Units: 3*
- FIN 640 - Financial Markets and Institutions *Units: 3*
- FIN 650 - Financial Management of Banking Institutions *Units: 3*
- FIN 660 - International Financial Management *Units: 3*
- FIN 670 - New Venture Financing *Units: 3*
- FIN 690 - Independent Study *Units: 1-4*
- FIN 697 - Issues in Finance *Units: 3*
- FIN 698 - Internship *Units: 1-3*

Department Courses Listed by Course Type

Economics Courses

Department of Economics

Go to information for this department.

Courses

Economics

- • ECON 100 - Economics of Public Issues *Units: 3 ; G.E./G.R. Area: D1-3*
- • ECON 101 - US Economic History and Institutions *Units: 3 ; G.E./G.R. Area: D1-3; US-1, US-2*
- • ECON 102 - California Economic History and Institutions *Units: 3 ; G.E./G.R. Area: D1-3*
- • ECON 103 - Economics of Creative Industries *Units: 3 ; G.E./G.R. Area: D1-3*
- • ECON 105 - Corporate Misconduct: Crimes, Crashes, Crises *Units: 3 ; G.E./G.R. Area: D1-3*
- • ECON 106 - Urban Policy, Social Justice, and the Environment *Units: 3 ; G.E./G.R. Area: D1-3*
- • ECON 200 - Principles of Microeconomics *Units: 3 ; G.E./G.R. Area: D1-3; Social Justice*
- • ECON 205 - Principles of Macroeconomics *Units: 3 ; G.E./G.R. Area: D1-3*
- • ECON 210 - Quantitative Methods for Economists *Units: 3*
- • ECON 211 - Programming for Data Analysts *Units: 3*
- • ECON 300 - Microeconomic Theory I *Units: 3*
- • ECON 301 - Microeconomic Theory II *Units: 3*
- • ECON 305 - Macroeconomic Theory *Units: 3*
- • ECON 306 - Money, Banking, & Financial Intermediaries *Units: 3 ; G.E./G.R. Area: D4*
- • ECON 310 - Introduction to Econometrics *Units: 3*
- • ECON 320 - History of Economic Thought *Units: 3*
- • ECON 334 - Economics of Information and Organizations *Units: 3*
- • ECON 335 - Introduction to Urban Economics *Units: 3*
- • ECON 337 - Sports Economics *Units: 3 ; G.E./G.R. Area: D4*
- • ECON 350 - International Economics *Units: 3*
- • ECON 360 - Environmental Economics *Units: 3*
- • ECON 370 - Health Economics and Public Policy *Units: 3*
- • ECON 380 - Managerial Economics and Business Strategy *Units: 3 ; G.E./G.R. Area: B6;*

Sustainability

- • ECON 383 - Game-Theoretic Reasoning: The Science of Interactive Behavior *Units: 3 ; G.E./G.R. Area: B6*
- • ECON 385 - Global Economic Analysis *Units: 3*
- • ECON 397 - Issues in Economic Analysis *Units: 3*
- • ECON 398 - Internship *Units: 1-3*
- • ECON 400 - Game Theory *Units: 3*
- • ECON 430 - Introduction to Industrial Organization *Units: 3*
- • ECON 431 - Economics of Innovation & Intellectual Property *Units: 3*
- • ECON 433 - Introduction to Labor Economics *Units: 3*
- • ECON 456 - Introduction to Monetary Theory *Units: 3*
- • ECON 460 - Introduction to Public Economics *Units: 3*
- • ECON 490 - Independent Study *Units: 1-4*
- • ECON 497 - Special Topics in Economic Analysis *Units: 3*
- • ECON 499 - Capstone: Empirical Analysis *Units: 3*

Economics: Graduate

- • BUS 606 - Managerial Economics *Units: 3*
- • ECON 600 - Foundations of Economic Theory *Units: 4*
- • ECON 601 - Advanced Microeconomics *Units: 4*
- • ECON 605 - Advanced Macroeconomics *Units: 4*
- • ECON 610 - Advanced Econometrics *Units: 4*
- • ECON 623 - Market Design *Units: 4*
- • ECON 625 - Urban Economics *Units: 4*
- • ECON 627 - Personnel Economics *Units: 4*
- • ECON 636 - Monetary Theory *Units: 4*
- • ECON 640 - Public Economics *Units: 4*
- • ECON 647 - International Economic Development *Units: 4*
- • ECON 660 - Industrial Organization *Units: 4*
- • ECON 661 - Strategic Pricing *Units: 4*
- • ECON 665 - Corporate Governance & Entrepreneurship *Units: 4*
- • ECON 667 - Project Analysis *Units: 4*
- • ECON 670 - Economic Research Practices *Units: 4*
- • ECON 688 - Applied Data Analysis *Units: 3*
- • ECON 690 - Independent Study *Units: 1-4*
- • ECON 693 - Project *Units: 1*
- • ECON 697 - Advanced Topics in Economics *Units: 4*
- • ECON 698 - Internship *Units: 1-3*

Department of Anthropology, Geography and Environmental Studies

Department Office location on the 2nd Floor of the Robinson Hall building, Room 220

Open Hours: 8:00 a.m. to 5:00 p.m., Monday through Friday

Dept. Phone: (510) 885-3193

Faculty

Professors

Karina Garbesi, Ph.D. University of California, Berkeley

David Larson (Chair), Ph.D. University of California, Berkeley

Michael Lee, Ph.D. London School of Economics (England)

Gary Li, Ph.D. State University of New York at Buffalo

Andrew Wong, Ph.D. Stanford University

Associate Professors

William Henry Gilbert, Ph.D. University of California, Berkeley

David Woo, Ph.D. University of California, Santa Barbara

Assistant Professor

Albert Gonzalez, Ph.D. Southern Methodist University

Welcome

If you are interested in undergraduate studies in Anthropology, Geography and the Environment, we welcome your visit and encourage you to browse our site. Please contact us directly if you have unanswered questions or would like an informational interview in person or by telephone.

About the Department

Use our university website link to learn more about what the Anthropology, Geography, and Environmental Studies Department has to offer.

- [Programs](#)
- [Faculty Info and Office Hours](#)
- [Museums, Labs, and Projects](#)
- [Degree Roadmap](#)
- [Alumni](#)
- [And more...](#)

Bachelor

Anthropology, B.A.: Archaeology and Biological Anthropology Concentration

Anthropology, B.A. Program (120 units)

Program Description

Anthropology is the multifaceted study of humanity from an evolutionary, historical, and global perspective. Students in anthropology learn about their own culture as well as those of other peoples as they are shaped by biological evolution, ecological constraints, political history, and sociological conditioning. The Department of Anthropology, Geography, and Environmental Studies offers ethnographic, theoretical and methodological courses in five sub-disciplines: biological anthropology, prehistory and archaeology, linguistic anthropology, sociocultural anthropology, and applied anthropology. Regional courses on major populations of the world, especially the heritage cultures of North and South America, and Asia, form an important component of the curriculum. The B.A. degree program bridges the sciences, social sciences, and humanities, preparing students for multidimensional careers. Fundamentally, the study of anthropology cultivates an appreciation of what all humans share, as well as how humans differ across time and space.

At the undergraduate level, students in the B.A. degree program may choose to focus on special interests in two combined sub-disciplines:

- Archaeology and Biological Anthropology emphasize the study of human biology, variation, evolution, and the reconstruction of past ways of life and cultural systems from material remains.
 - Socio-Cultural and Applied Anthropology emphasize the study of social and cultural systems of more recent historical and contemporary populations, and the application of anthropological insights into present-day problems.
- Other combinations are possible upon consultation with, and approval by, the faculty.

Program Learning Outcomes

Students graduating with a B.A. in Anthropology from Cal State East Bay will be able to:

- identify, summarize and sequence the basic schools of anthropological thought in all four academic sub-fields of the discipline;
- apply basic qualitative and quantitative sociocultural (ethnographic), archaeological, or osteological research methods and skills;
- describe, compare and relate human cultures across different regions of the globe;
- examine human diversity holistically and scientifically, discriminating among and analyzing conceptions and misconceptions of ethnicity, "race," and human biological variation;
- identify pragmatic uses of anthropological methods and perspectives in approaching real-world solutions, and identify instances of and opportunities for applications of anthropological tools and ideas in employment and community development, both locally and globally; and
- communicate information clearly in written and oral forms.

Career Opportunities

Anthropologist • Archaeologist • Artifacts Conservator • Curator • Ethnologist • Foreign Service Officer • Immigration Service Official • International Aid Agencies Official • International Business Employee • Multicultural Education Instructor • Park Ranger • Park Service Official • *Professor/Teacher • Refugee Worker • Researcher • Social Science Teacher* • Social Worker • Travel Consultant • Urban Planner.

*Note: *Teaching may require additional training beyond the B.A.*

Features

The Department administers the Clarence E. Smith Museum of Anthropology, located on the fourth floor of Meiklejohn Hall. The museum houses a sizable collection of archaeological artifacts recovered in Alameda and Contra Costa Counties, as well as ethnographic specimens from cultural groups throughout the world. The museum is an instructional facility for museum curating, research, design, and exhibits. Museum exhibits and special events are open to the public free of charge. For information, call (510) 885-3104.

Degree Requirements Unit-Outline

- A baccalaureate of arts degree requires a total of 120 units:
 - The major requirements consists of 42 units;
 - General Education (GE) & Graduation Requirements (GR) consists of 57 units;
 - Free Electives may consists of 21 units (*actual number of free elective units may depend on GE/GR units*).

Note: It may be possible to double-count units within the graduation requirements or that a course may satisfy both a graduation requirement and a major requirement. Students should contact their program and AACE advisors for information.

Anthropology Major Requirements (42 units)

Introductory Core Courses

Take three (3) of the following introductory courses for 9 units:

- ANTH 110 - Introduction to Biological Anthropology Units: 3 ; G.E./G.R. Area: B2
- ANTH 120 - Introduction to Archaeology Units: 3 ; G.E./G.R. Area: B1
- ANTH 130 - Introduction to Cultural Anthropology Units: 3 ; G.E./G.R. Area: D1-3
- ANTH 140 - Introduction to Linguistic Anthropology Units: 3 ; G.E./G.R. Area: D1-3
- ANTH 300 - Anthropology of Global Change Units: 3 ; G.E./G.R. Area: D4

Upper-Division Core Courses

The following 21 units of upper-division courses are required:

- ANTH 310 - Evolutionary Biology of Humans Units: 3 ; G.E./G.R. Area: B6
- ANTH 320 - Archaeological Science Units: 3
- ANTH 330 - Social Anthropology Units: 3
- ANTH 340 - Language and Culture Units: 3 ; G.E./G.R. Area: D4
- ANTH 370 - Anthropology in Action Units: 3
- ANTH 377 - Museum Studies Anthropology Units: 3
- ANTH 431 - Advanced Anthropological Theory Units: 3

Concentration

Choose one (1) of the two offered concentrations for 12 units:

- Anthropology, B.A.: Archaeology and Biological Anthropology Concentration
- Anthropology, B.A.: Socio-Cultural and Applied Anthropology Concentration

Archaeology and Biological Anthropology Concentration

Archaeology and Biological Anthropology

Take two (2) of the following for 6 units (one of them may be substituted with a non-ANTH course with consent of advisor):

- ANTH 311 - Human Fossil Record Units: 3 ; G.E./G.R. Area: B6
- ANTH 312 - Primate Behavioral Ecology Units: 3 ; G.E./G.R. Area: D4
- ANTH 321 - Archaeology of the Americas Units: 3 ; G.E./G.R. Area: D4

Research Methods

Take two (2) of the following for 6 units:

- ANTH 410 - Bioarchaeology Laboratory *Units: 3*
- ANTH 411 - Human Forensic Osteology *Units: 3*
- ANTH 420 - Archaeology Laboratory *Units: 3*
- ANTH 421 - Field Archaeology *Units: 3*

Other Undergraduate Degree Requirements

In addition to major requirements, every student must also complete the University's baccalaureate requirements for graduation, which are described in the Requirements, Exams & Testing chapter of this catalog.

Department Courses Listed by Course Type

Anthropology, Geography, and Environmental Studies Courses

Department of Anthropology, Geography and Environmental Studies

Go to information for this department.

Courses

Anthropology

- ANTH 100 - Introduction to Anthropology *Units: 3 ; G.E./G.R. Area: D1-3*
- ANTH 110 - Introduction to Biological Anthropology *Units: 3 ; G.E./G.R. Area: B2*
- ANTH 120 - Introduction to Archaeology *Units: 3 ; G.E./G.R. Area: B1*
- ANTH 130 - Introduction to Cultural Anthropology *Units: 3 ; G.E./G.R. Area: D1-3*
- ANTH 140 - Introduction to Linguistic Anthropology *Units: 3 ; G.E./G.R. Area: D1-3*
- ANTH 300 - Anthropology of Global Change *Units: 3 ; G.E./G.R. Area: D4*
- ANTH 490 - Independent Study *Units: 1-4*
- ANTH 497 - Issues in Anthropology *Units: 3*

Anthropology: Applied Anthropology

- ANTH 370 - Anthropology in Action *Units: 3*
- ANTH 371 - Business Anthropology *Units: 3 ; G.E./G.R. Area: D4*
- ANTH 372 - Medical Anthropology *Units: 3 ; G.E./G.R. Area: D4; Diversity*
- ANTH 377 - Museum Studies Anthropology *Units: 3*
- ANTH 398 - Internship *Units: 1-3*

Anthropology: Archaeology

- ANTH 320 - Archaeological Science *Units: 3*
- ANTH 321 - Archaeology of the Americas *Units: 3 ; G.E./G.R. Area: D4*

Anthropology: Area Studies

- ANTH 350 - Indians of California *Units: 3 ; G.E./G.R. Area: D4*

- ANTH 354 - China *Units: 3 ; G.E./G.R. Area: D4*
- ANTH 355 - Japan *Units: 3*

Anthropology: Biological Anthropology

- ANTH 310 - Evolutionary Biology of Humans *Units: 3 ; G.E./G.R. Area: B6*
- ANTH 311 - Human Fossil Record *Units: 3 ; G.E./G.R. Area: B6*
- ANTH 312 - Primate Behavioral Ecology *Units: 3 ; G.E./G.R. Area: D4*

Anthropology: Methods

- ANTH 410 - Bioarchaeology Laboratory *Units: 3*
- ANTH 411 - Human Forensic Osteology *Units: 3*
- ANTH 420 - Archaeology Laboratory *Units: 3*
- ANTH 421 - Field Archaeology *Units: 3*
- ANTH 430 - Field Course in Ethnography *Units: 3*

Anthropology: Linguistic Anthropology

- ANTH 340 - Language and Culture *Units: 3 ; G.E./G.R. Area: D4*
- ANTH 341 - Linguistic Diversity and Social Justice *Units: 3 ; G.E./G.R. Area: D4; Social Justice*
- ANTH 342 - Language and Sexuality *Units: 3 ; G.E./G.R. Area: D4; Diversity*

Anthropology: Sociocultural Anthropology

- ANTH 330 - Social Anthropology *Units: 3*
- ANTH 331 - Folklore *Units: 3 ; G.E./G.R. Area: D4*
- ANTH 333 - Women in Cross-Cultural Perspective *Units: 3 ; G.E./G.R. Area: D4; Social Justice*
- ANTH 334 - Human Sexuality: Anthropological Perspectives *Units: 3 ; G.E./G.R. Area: D4*
- ANTH 431 - Advanced Anthropological Theory *Units: 3*

Environmental Science: Graduate

- ENSC 633 - The Science of Soils *Units: 4*

Environmental Studies

- ENVT 101 - Environmental Challenges of the 21st Century *Units: 3 ; G.E./G.R. Area: D1-3; Sustainability*
- ENVT 225 - Fundamentals of GIS *Units: 3*
- ENVT 307 - Social Impact through Sustainable Solar Design *Units: 3 ; G.E./G.R. Area: B6; Sustainability*
- ENVT 310 - Literature and Research Methods *Units: 4*
- ENVT 320 - Environmental Resource Analysis *Units: 4*
- ENVT 330 - Environment, Sustainability, and Social Justice *Units: 3 ; G.E./G.R. Area: D4; Sustainability*
- ENVT 340 - Climate Change *Units: 3 ; G.E./G.R. Area: B6; Sustainability*
- ENVT 380 - Applied Field Studies *Units: 3*
- ENVT 398 - Internship *Units: 1-3*
- ENVT 410 - Environmental Impact Analysis *Units: 3*
- ENVT 445 - Water and Watershed Resources *Units: 4 ; G.E./G.R. Area: B6*
- ENVT 447 - Energy, Climate and Society *Units: 4 ; G.E./G.R. Area: B6; Sustainability*
- ENVT 465 - Sustainable Communities and Development *Units: 4 ; G.E./G.R. Area: D4; Sustainability*
- ENVT 490 - Independent Study *Units: 1-3*
- ENVT 493 - Environmental Projects *Units: 3*
- ENVT 495 - Environmental Internship *Units: 1-3*

Geography

- GEOG 110 - Physical Geography: Earth Processes and Outcomes *Units: 3 ; G.E./G.R. Area: B1*
- GEOG 120 - Human Geography: Diversity and Globalization *Units: 3 ; G.E./G.R. Area: D1-3*
- GEOG 125 - World Regions and Development *Units: 3 ; G.E./G.R. Area: D1-3*
- GEOG 200 - Sustainable Resource Management *Units: 3 ; G.E./G.R. Area: D1-3*
- GEOG 225 - Fundamentals of GIS *Units: 3*
- GEOG 310 - Literature and Research Methods *Units: 4*
- GEOG 320 - Environmental Resource Analysis *Units: 4*
- GEOG 330 - Historical Geography of North America *Units: 3 ; G.E./G.R. Area: D4*
- GEOG 336 - Asian Americans: Multiculturalism and Spatial Disparity *Units: 3 ; G.E./G.R. Area:*

D4

- GEOG 340 - Climate Change *Units: 3 ; G.E./G.R. Area: B6; Sustainability*
- GEOG 350 - California *Units: 3 ; G.E./G.R. Area: D4*
- GEOG 351 - United States and Canada *Units: 3 ; G.E./G.R. Area: D4*
- GEOG 352 - Latin America and the Caribbean *Units: 3 ; G.E./G.R. Area: D4*
- GEOG 353 - Africa *Units: 3 ; G.E./G.R. Area: D4*
- GEOG 354 - China: Economic Development and Social Transformation *Units: 3 ; G.E./G.R.*

Area: D4

- GEOG 355 - Asia Pacific *Units: 3 ; G.E./G.R. Area: D4*
- GEOG 356 - Europe *Units: 3 ; G.E./G.R. Area: D4*
- GEOG 360 - Computer Cartography *Units: 3*
- GEOG 380 - Applied Field Studies *Units: 3*
- GEOG 397 - Issues in Anthropology, Geography and Environmental Studies *Units: 3*
- GEOG 398 - Internship *Units: 1-3*
- GEOG 425 - Advanced GIS *Units: 3*
- GEOG 445 - Water and Watershed Resources *Units: 4 ; G.E./G.R. Area: B6*
- GEOG 447 - Energy, Climate and Society *Units: 4 ; G.E./G.R. Area: B6; Sustainability*
- GEOG 450 - Earth Surface Processes and Landforms *Units: 3 ; G.E./G.R. Area: B6*
- GEOG 455 - Sustainable Food Systems *Units: 4 ; G.E./G.R. Area: D4; Sustainability*
- GEOG 461 - Remote Sensing of the Environment *Units: 3*
- GEOG 462 - Air Photo Interpretation *Units: 3*
- GEOG 465 - Sustainable Communities and Development *Units: 4 ; G.E./G.R. Area: D4;*

Sustainability

- GEOG 490 - Independent Study *Units: 1-3*
- GEOG 497 - Issues in Geography *Units: 3*
- GEOG 499 - Senior Seminar in Geography *Units: 3*

Anthropology, B.A.: Socio-Cultural and Applied Anthropology Concentration

Anthropology, B.A. Program (120 units)

Program Description

Anthropology is the multifaceted study of humanity from an evolutionary, historical, and global perspective. Students in anthropology learn about their own culture as well as those of other peoples as they are shaped by biological evolution, ecological constraints, political history, and sociological conditioning. The Department of Anthropology, Geography, and Environmental Studies offers ethnographic, theoretical and methodological courses in five sub-disciplines: biological anthropology, prehistory and archaeology, linguistic anthropology, sociocultural anthropology, and applied

anthropology. Regional courses on major populations of the world, especially the heritage cultures of North and South America, and Asia, form an important component of the curriculum. The B.A. degree program bridges the sciences, social sciences, and humanities, preparing students for multidimensional careers. Fundamentally, the study of anthropology cultivates an appreciation of what all humans share, as well as how humans differ across time and space.

At the undergraduate level, students in the B.A. degree program may choose to focus on special interests in two combined sub-disciplines:

- Archaeology and Biological Anthropology emphasize the study of human biology, variation, evolution, and the reconstruction of past ways of life and cultural systems from material remains.
 - Socio-Cultural and Applied Anthropology emphasize the study of social and cultural systems of more recent historical and contemporary populations, and the application of anthropological insights into present-day problems.
- Other combinations are possible upon consultation with, and approval by, the faculty.

Program Learning Outcomes

Students graduating with a B.A. in Anthropology from Cal State East Bay will be able to:

- identify, summarize and sequence the basic schools of anthropological thought in all four academic sub-fields of the discipline;
- apply basic qualitative and quantitative sociocultural (ethnographic), archaeological, or osteological research methods and skills;
- describe, compare and relate human cultures across different regions of the globe;
- examine human diversity holistically and scientifically, discriminating among and analyzing conceptions and misconceptions of ethnicity, "race," and human biological variation;
- identify pragmatic uses of anthropological methods and perspectives in approaching real-world solutions, and identify instances of and opportunities for applications of anthropological tools and ideas in employment and community development, both locally and globally; and
- communicate information clearly in written and oral forms.

Career Opportunities

Anthropologist • Archaeologist • Artifacts Conservator • Curator • Ethnologist • Foreign Service Officer • Immigration Service Official • International Aid Agencies Official • International Business Employee • Multicultural Education Instructor • Park Ranger • Park Service Official • *Professor/Teacher • Refugee Worker • Researcher • Social Science Teacher* • Social Worker • Travel Consultant • Urban Planner.

*Note: *Teaching may require additional training beyond the B.A.*

Features

The Department administers the Clarence E. Smith Museum of Anthropology, located on the fourth floor of Meiklejohn Hall. The museum houses a sizable collection of archaeological artifacts recovered in Alameda and Contra Costa Counties, as well as ethnographic specimens from cultural groups throughout the world. The museum is an instructional facility for museum curating, research, design, and exhibits. Museum exhibits and special events are open to the public free of charge. For information, call (510) 885-3104.

Degree Requirements Unit-Outline

- A baccalaureate of arts degree requires a total of 120 units:
 - The major requirements consists of 42 units;
 - General Education (GE) & Graduation Requirements (GR) consists of 57 units;
 - Free Electives may consists of 21 units (*actual number of free elective units may depend on GE/GR units*).

Note: It may be possible to double-count units within the graduation requirements or that a course may satisfy both a graduation requirement and a major requirement. Students should contact their program and AACE advisors for information.

Anthropology Major Requirements (42 units)

Introductory Core Courses

Take three (3) of the following introductory courses for 9 units:

- ANTH 110 - Introduction to Biological Anthropology Units: 3 ; G.E./G.R. Area: B2
- ANTH 120 - Introduction to Archaeology Units: 3 ; G.E./G.R. Area: B1
- ANTH 130 - Introduction to Cultural Anthropology Units: 3 ; G.E./G.R. Area: D1-3
- ANTH 140 - Introduction to Linguistic Anthropology Units: 3 ; G.E./G.R. Area: D1-3
- ANTH 300 - Anthropology of Global Change Units: 3 ; G.E./G.R. Area: D4

Upper-Division Core Courses

The following 21 units of upper-division courses are required:

- ANTH 310 - Evolutionary Biology of Humans Units: 3 ; G.E./G.R. Area: B6
- ANTH 320 - Archaeological Science Units: 3
- ANTH 330 - Social Anthropology Units: 3
- ANTH 340 - Language and Culture Units: 3 ; G.E./G.R. Area: D4
- ANTH 370 - Anthropology in Action Units: 3
- ANTH 377 - Museum Studies Anthropology Units: 3
- ANTH 431 - Advanced Anthropological Theory Units: 3

Concentration

Choose one (1) of the two offered concentrations for 12 units:

- Anthropology, B.A.: Archaeology and Biological Anthropology Concentration
- Anthropology, B.A.: Socio-Cultural and Applied Anthropology Concentration

Socio-Cultural and Applied Anthropology Concentration

Socio-Cultural Anthropology

Choose one (1) of the following for 3 units:

- ANTH 331 - Folklore *Units: 3 ; G.E./G.R. Area: D4*
- ANTH 333 - Women in Cross-Cultural Perspective *Units: 3 ; G.E./G.R. Area: D4; Social Justice*
- ANTH 334 - Human Sexuality: Anthropological Perspectives *Units: 3 ; G.E./G.R. Area: D4*

Linguistic Anthropology

Choose one (1) of the following for 3 units:

- ANTH 341 - Linguistic Diversity and Social Justice *Units: 3 ; G.E./G.R. Area: D4; Social Justice*
- ANTH 342 - Language and Sexuality *Units: 3 ; G.E./G.R. Area: D4; Diversity*

Regional Studies and Applied Anthropology

Choose one (1) of the following for 3 units:

- ANTH 350 - Indians of California *Units: 3 ; G.E./G.R. Area: D4*
- ANTH 354 - China *Units: 3 ; G.E./G.R. Area: D4*
- ANTH 355 - Japan *Units: 3*
- ANTH 371 - Business Anthropology *Units: 3 ; G.E./G.R. Area: D4*
- ANTH 372 - Medical Anthropology *Units: 3 ; G.E./G.R. Area: D4; Diversity*

Research Methods

The following course for 3 units is required:

- ANTH 430 - Field Course in Ethnography *Units: 3*

Other Undergraduate Degree Requirements

In addition to major requirements, every student must also complete the University's baccalaureate requirements for graduation, which are described in the Requirements, Exams & Testing chapter of this catalog.

Department Courses Listed by Course Type

Anthropology, Geography, and Environmental Studies Courses

Department of Anthropology, Geography and Environmental Studies

Go to information for this department.

Courses

Anthropology

- ANTH 100 - Introduction to Anthropology *Units: 3 ; G.E./G.R. Area: D1-3*
- ANTH 110 - Introduction to Biological Anthropology *Units: 3 ; G.E./G.R. Area: B2*
- ANTH 120 - Introduction to Archaeology *Units: 3 ; G.E./G.R. Area: B1*
- ANTH 130 - Introduction to Cultural Anthropology *Units: 3 ; G.E./G.R. Area: D1-3*
- ANTH 140 - Introduction to Linguistic Anthropology *Units: 3 ; G.E./G.R. Area: D1-3*
- ANTH 300 - Anthropology of Global Change *Units: 3 ; G.E./G.R. Area: D4*
- ANTH 490 - Independent Study *Units: 1-4*
- ANTH 497 - Issues in Anthropology *Units: 3*

Anthropology: Applied Anthropology

- ANTH 370 - Anthropology in Action *Units: 3*
- ANTH 371 - Business Anthropology *Units: 3 ; G.E./G.R. Area: D4*
- ANTH 372 - Medical Anthropology *Units: 3 ; G.E./G.R. Area: D4; Diversity*
- ANTH 377 - Museum Studies Anthropology *Units: 3*
- ANTH 398 - Internship *Units: 1-3*

Anthropology: Archaeology

- ANTH 320 - Archaeological Science *Units: 3*
- ANTH 321 - Archaeology of the Americas *Units: 3 ; G.E./G.R. Area: D4*

Anthropology: Area Studies

- ANTH 350 - Indians of California *Units: 3 ; G.E./G.R. Area: D4*
- ANTH 354 - China *Units: 3 ; G.E./G.R. Area: D4*
- ANTH 355 - Japan *Units: 3*

Anthropology: Biological Anthropology

- ANTH 310 - Evolutionary Biology of Humans *Units: 3 ; G.E./G.R. Area: B6*
- ANTH 311 - Human Fossil Record *Units: 3 ; G.E./G.R. Area: B6*
- ANTH 312 - Primate Behavioral Ecology *Units: 3 ; G.E./G.R. Area: D4*

Anthropology: Methods

- ANTH 410 - Bioarchaeology Laboratory *Units: 3*
- ANTH 411 - Human Forensic Osteology *Units: 3*
- ANTH 420 - Archaeology Laboratory *Units: 3*
- ANTH 421 - Field Archaeology *Units: 3*
- ANTH 430 - Field Course in Ethnography *Units: 3*

Anthropology: Linguistic Anthropology

- ANTH 340 - Language and Culture *Units: 3 ; G.E./G.R. Area: D4*
- ANTH 341 - Linguistic Diversity and Social Justice *Units: 3 ; G.E./G.R. Area: D4; Social Justice*
- ANTH 342 - Language and Sexuality *Units: 3 ; G.E./G.R. Area: D4; Diversity*

Anthropology: Sociocultural Anthropology

- ANTH 330 - Social Anthropology *Units: 3*
- ANTH 331 - Folklore *Units: 3 ; G.E./G.R. Area: D4*
- ANTH 333 - Women in Cross-Cultural Perspective *Units: 3 ; G.E./G.R. Area: D4; Social Justice*
- ANTH 334 - Human Sexuality: Anthropological Perspectives *Units: 3 ; G.E./G.R. Area: D4*
- ANTH 431 - Advanced Anthropological Theory *Units: 3*

Environmental Science: Graduate

- ENSC 633 - The Science of Soils *Units: 4*

Environmental Studies

- ENVT 101 - Environmental Challenges of the 21st Century *Units: 3 ; G.E./G.R. Area: D1-3; Sustainability*

- ENVT 225 - Fundamentals of GIS *Units: 3*

- ENVT 307 - Social Impact through Sustainable Solar Design *Units: 3 ; G.E./G.R. Area: B6; Sustainability*

- ENVT 310 - Literature and Research Methods *Units: 4*

- ENVT 320 - Environmental Resource Analysis *Units: 4*

- ENVT 330 - Environment, Sustainability, and Social Justice *Units: 3 ; G.E./G.R. Area: D4; Sustainability*

- ENVT 340 - Climate Change *Units: 3 ; G.E./G.R. Area: B6; Sustainability*

- ENVT 380 - Applied Field Studies *Units: 3*

- ENVT 398 - Internship *Units: 1-3*

- ENVT 410 - Environmental Impact Analysis *Units: 3*

- ENVT 445 - Water and Watershed Resources *Units: 4 ; G.E./G.R. Area: B6*

- ENVT 447 - Energy, Climate and Society *Units: 4 ; G.E./G.R. Area: B6; Sustainability*

- ENVT 465 - Sustainable Communities and Development *Units: 4 ; G.E./G.R. Area: D4; Sustainability*

- ENVT 490 - Independent Study *Units: 1-3*

- ENVT 493 - Environmental Projects *Units: 3*

- ENVT 495 - Environmental Internship *Units: 1-3*

Geography

- GEOG 110 - Physical Geography: Earth Processes and Outcomes *Units: 3 ; G.E./G.R. Area: B1*

- GEOG 120 - Human Geography: Diversity and Globalization *Units: 3 ; G.E./G.R. Area: D1-3*

- GEOG 125 - World Regions and Development *Units: 3 ; G.E./G.R. Area: D1-3*

- GEOG 200 - Sustainable Resource Management *Units: 3 ; G.E./G.R. Area: D1-3*

- GEOG 225 - Fundamentals of GIS *Units: 3*

- GEOG 310 - Literature and Research Methods *Units: 4*

- GEOG 320 - Environmental Resource Analysis *Units: 4*

- GEOG 330 - Historical Geography of North America *Units: 3 ; G.E./G.R. Area: D4*

- GEOG 336 - Asian Americans: Multiculturalism and Spatial Disparity *Units: 3 ; G.E./G.R. Area: D4*

D4

- GEOG 340 - Climate Change *Units: 3 ; G.E./G.R. Area: B6; Sustainability*

- GEOG 350 - California *Units: 3 ; G.E./G.R. Area: D4*

- GEOG 351 - United States and Canada *Units: 3 ; G.E./G.R. Area: D4*

- GEOG 352 - Latin America and the Caribbean *Units: 3 ; G.E./G.R. Area: D4*

- GEOG 353 - Africa *Units: 3 ; G.E./G.R. Area: D4*

- GEOG 354 - China: Economic Development and Social Transformation *Units: 3 ; G.E./G.R. Area: D4*

- GEOG 355 - Asia Pacific *Units: 3 ; G.E./G.R. Area: D4*

- GEOG 356 - Europe *Units: 3 ; G.E./G.R. Area: D4*

- GEOG 360 - Computer Cartography *Units: 3*

- GEOG 380 - Applied Field Studies *Units: 3*

- GEOG 397 - Issues in Anthropology, Geography and Environmental Studies *Units: 3*

- GEOG 398 - Internship *Units: 1-3*

- GEOG 425 - Advanced GIS *Units: 3*

- GEOG 445 - Water and Watershed Resources *Units: 4 ; G.E./G.R. Area: B6*

- GEOG 447 - Energy, Climate and Society *Units: 4 ; G.E./G.R. Area: B6; Sustainability*

- GEOG 450 - Earth Surface Processes and Landforms *Units: 3 ; G.E./G.R. Area: B6*

- GEOG 455 - Sustainable Food Systems *Units: 4 ; G.E./G.R. Area: D4; Sustainability*

- GEOG 461 - Remote Sensing of the Environment *Units: 3*

- GEOG 462 - Air Photo Interpretation *Units: 3*

- GEOG 465 - Sustainable Communities and Development *Units: 4 ; G.E./G.R. Area: D4; Sustainability*
- GEOG 490 - Independent Study *Units: 1-3*
- GEOG 497 - Issues in Geography *Units: 3*
- GEOG 499 - Senior Seminar in Geography *Units: 3*

Environmental Studies, B.A.

Environmental Studies, B.A. Program (120 units)

Program Description

The Environmental Studies Undergraduate Major is characterized by its focus on equitable, just, and sustainable environmental solutions. Environmental professionals who emerge from the program are generalists who can identify and synthesize the ecological, social, ethical, economic, technical, and behavioral dimensions of critical environmental problems. Using qualitative and quantitative problem solving concepts, approaches, and tools, our students are prepared to synthesize and communicate appropriate environmental solutions.

Majors are typically involved in campus and community sustainability projects such as greenhouse gas assessment, water resource and sustainability assessment, climate action and sustainability planning, and urban restoration projects. The program engages actively in collaborations across the campus, locally, and internationally. The Major benefits by close association with the Geography Program, providing students access to training in the spatial analytical tools that can greatly leverage their expertise for careers as sustainability directors and environmental resource managers. The program also benefits from aggressive regional and state programs to promote environmental sustainability and social justice that make the San Francisco Bay Area a national hotspot for environmental careers.

Features

- Environmental Studies Bachelor of Arts
- Environmental Studies Minor
- Sustainability Certificate
- Sustainable Energy Systems Certificate

Career Opportunities

Career opportunities are highly diverse and new opportunities are rapidly emerging. Our graduates work in all sectors: governmental, non-profit, private, and education. Our students pursue graduate degrees in many fields including: environmental policy and management, urban planning, environmental law, recreation management, landscape architecture, green business, public administration, and education.

Many become environment and resource managers working on issues of water, energy, climate, parks, transportation, and urban environments.

Job titles include, but are not limited to:

Sustainability Officer/Director • Environmental Advocate / Analyst / Educator / Program Manager / Planner • Energy Analyst / Manager • Water Resources Analyst / Manager / Planner • Environmental

Justice Analyst, Compliance Specialist • Environmental Permitting, Planning, and
Compliance • Environmental Business Entrepreneur

Program Learning Outcomes

Graduates with a degree in Environmental Studies should be able to:

- Articulate key threats to the global environment, the scientific basis of the understanding of those threats, their underlying causes and implications for society;
- Articulate and apply key concepts to critical environmental problems including ecological limits, threshold effects, tragedy of the commons, and the interconnectedness of natural and human systems;
- Identify and apply a range of prominent tools and strategies to maintain and restore environmental quality and achieve sustainability;
- Describe and evaluate social justice and equity issues in the context of sustainable development;
- Identify, describe and assess the environmental and associated equity and justice implications of human actions including one's own;
- Apply quantitative and qualitative approaches to identify, analyze, and assess environmental problems.

Degree Requirements Unit-Outline

- A baccalaureate of arts degree requires a total of 120 units:
 - The major requirements consists of 53 units
 - General Education & Graduation Requirements consists of 57 units ;
 - Free Electives may consist of 10 units (actual number of free elective units may depend on GE/GR units).

Note: It may be possible to double-count units within the graduation requirements or that a course may satisfy both a graduation requirement and a major requirement. Students should contact their program and AACE advisors for information.

Environmental Studies Major Requirements (53 units)

Lower Division Coursework

Students must take all of the following courses for 18 units as outline below:

Take all of the following 15 units:

- CHEM 100 - Introduction to College Chemistry Units: 3 ; G.E./G.R. Area: B1, B3
- ENSC 240 - Environmental Biology Units: 3 ; G.E./G.R. Area: B2; Sustainability
- ENVT 101 - Environmental Challenges of the 21st Century Units: 3 ; G.E./G.R. Area: D1-3; Sustainability
- ENVT 225 - Fundamentals of GIS Units: 3
- STAT 100 - Elements of Statistics and Probability Units: 3 ; G.E./G.R. Area: B4

Plus, take one (1) of the following courses for 3 units:

- ECON 205 - Principles of Macroeconomics Units: 3 ; G.E./G.R. Area: D1-3
- OR GEOG 125 - World Regions and Development Units: 3 ; G.E./G.R. Area: D1-3

Upper Division Coursework

Students must take all of the following 32 units as outlined below:

Take all of the following 26 units:

- ENVT 310 - Literature and Research Methods *Units: 4*
- ENVT 320 - Environmental Resource Analysis *Units: 4*
- ENVT 330 - Environment, Sustainability, and Social Justice *Units: 3 ; G.E./G.R. Area: D4; Sustainability*
- ENVT 410 - Environmental Impact Analysis *Units: 3*
- ENVT 445 - Water and Watershed Resources *Units: 4 ; G.E./G.R. Area: B6*
- ENVT 447 - Energy, Climate and Society *Units: 4 ; G.E./G.R. Area: B6; Sustainability*
- ENVT 465 - Sustainable Communities and Development *Units: 4 ; G.E./G.R. Area: D4; Sustainability*

Plus, choose one (1) of the following two courses for 3 units:

- POSC 344 - Environmental Law *Units: 3*
- OR POSC 411 - Public Policy and the Environment *Units: 3*

And, choose one (1) of the following two courses for 3 units:

- ENVT 307 - Social Impact through Sustainable Solar Design *Units: 3 ; G.E./G.R. Area: B6; Sustainability*
- OR ENVT 380 - Applied Field Studies *Units: 3*

Capstone Requirement

All students must take the Environmental Studies capstone experience for 3 units to complete the major:

- ENVT 493 - Environmental Projects *Units: 3*

Other Undergraduate Degree Requirements

In addition to major requirements, every student must also complete the University's baccalaureate requirements for graduation, which are described in the Requirements, Exams & Testing chapter of this catalog.

Department Courses Listed by Course Type

Anthropology, Geography, and Environmental Studies Courses

Department of Anthropology, Geography and Environmental Studies

Go to information for this department.

Courses

Anthropology

- ANTH 100 - Introduction to Anthropology *Units: 3 ; G.E./G.R. Area: D1-3*
- ANTH 110 - Introduction to Biological Anthropology *Units: 3 ; G.E./G.R. Area: B2*
- ANTH 120 - Introduction to Archaeology *Units: 3 ; G.E./G.R. Area: B1*
- ANTH 130 - Introduction to Cultural Anthropology *Units: 3 ; G.E./G.R. Area: D1-3*
- ANTH 140 - Introduction to Linguistic Anthropology *Units: 3 ; G.E./G.R. Area: D1-3*
- ANTH 300 - Anthropology of Global Change *Units: 3 ; G.E./G.R. Area: D4*
- ANTH 490 - Independent Study *Units: 1-4*
- ANTH 497 - Issues in Anthropology *Units: 3*

Anthropology: Applied Anthropology

- ANTH 370 - Anthropology in Action *Units: 3*
- ANTH 371 - Business Anthropology *Units: 3 ; G.E./G.R. Area: D4*
- ANTH 372 - Medical Anthropology *Units: 3 ; G.E./G.R. Area: D4; Diversity*
- ANTH 377 - Museum Studies Anthropology *Units: 3*
- ANTH 398 - Internship *Units: 1-3*

Anthropology: Archaeology

- ANTH 320 - Archaeological Science *Units: 3*
- ANTH 321 - Archaeology of the Americas *Units: 3 ; G.E./G.R. Area: D4*

Anthropology: Area Studies

- ANTH 350 - Indians of California *Units: 3 ; G.E./G.R. Area: D4*
- ANTH 354 - China *Units: 3 ; G.E./G.R. Area: D4*
- ANTH 355 - Japan *Units: 3*

Anthropology: Biological Anthropology

- ANTH 310 - Evolutionary Biology of Humans *Units: 3 ; G.E./G.R. Area: B6*
- ANTH 311 - Human Fossil Record *Units: 3 ; G.E./G.R. Area: B6*
- ANTH 312 - Primate Behavioral Ecology *Units: 3 ; G.E./G.R. Area: D4*

Anthropology: Methods

- ANTH 410 - Bioarchaeology Laboratory *Units: 3*
- ANTH 411 - Human Forensic Osteology *Units: 3*
- ANTH 420 - Archaeology Laboratory *Units: 3*
- ANTH 421 - Field Archaeology *Units: 3*
- ANTH 430 - Field Course in Ethnography *Units: 3*

Anthropology: Linguistic Anthropology

- ANTH 340 - Language and Culture *Units: 3 ; G.E./G.R. Area: D4*
- ANTH 341 - Linguistic Diversity and Social Justice *Units: 3 ; G.E./G.R. Area: D4; Social Justice*
- ANTH 342 - Language and Sexuality *Units: 3 ; G.E./G.R. Area: D4; Diversity*

Anthropology: Sociocultural Anthropology

- ANTH 330 - Social Anthropology *Units: 3*
- ANTH 331 - Folklore *Units: 3 ; G.E./G.R. Area: D4*
- ANTH 333 - Women in Cross-Cultural Perspective *Units: 3 ; G.E./G.R. Area: D4; Social Justice*
- ANTH 334 - Human Sexuality: Anthropological Perspectives *Units: 3 ; G.E./G.R. Area: D4*
- ANTH 431 - Advanced Anthropological Theory *Units: 3*

Environmental Science: Graduate

- ENSC 633 - The Science of Soils *Units: 4*

Environmental Studies

- ENVT 101 - Environmental Challenges of the 21st Century *Units: 3 ; G.E./G.R. Area: D1-3; Sustainability*

- ENVT 225 - Fundamentals of GIS *Units: 3*

- ENVT 307 - Social Impact through Sustainable Solar Design *Units: 3 ; G.E./G.R. Area: B6; Sustainability*

- ENVT 310 - Literature and Research Methods *Units: 4*

- ENVT 320 - Environmental Resource Analysis *Units: 4*

- ENVT 330 - Environment, Sustainability, and Social Justice *Units: 3 ; G.E./G.R. Area: D4; Sustainability*

- ENVT 340 - Climate Change *Units: 3 ; G.E./G.R. Area: B6; Sustainability*

- ENVT 380 - Applied Field Studies *Units: 3*

- ENVT 398 - Internship *Units: 1-3*

- ENVT 410 - Environmental Impact Analysis *Units: 3*

- ENVT 445 - Water and Watershed Resources *Units: 4 ; G.E./G.R. Area: B6*

- ENVT 447 - Energy, Climate and Society *Units: 4 ; G.E./G.R. Area: B6; Sustainability*

- ENVT 465 - Sustainable Communities and Development *Units: 4 ; G.E./G.R. Area: D4; Sustainability*

- ENVT 490 - Independent Study *Units: 1-3*

- ENVT 493 - Environmental Projects *Units: 3*

- ENVT 495 - Environmental Internship *Units: 1-3*

Geography

- GEOG 110 - Physical Geography: Earth Processes and Outcomes *Units: 3 ; G.E./G.R. Area: B1*

- GEOG 120 - Human Geography: Diversity and Globalization *Units: 3 ; G.E./G.R. Area: D1-3*

- GEOG 125 - World Regions and Development *Units: 3 ; G.E./G.R. Area: D1-3*

- GEOG 200 - Sustainable Resource Management *Units: 3 ; G.E./G.R. Area: D1-3*

- GEOG 225 - Fundamentals of GIS *Units: 3*

- GEOG 310 - Literature and Research Methods *Units: 4*

- GEOG 320 - Environmental Resource Analysis *Units: 4*

- GEOG 330 - Historical Geography of North America *Units: 3 ; G.E./G.R. Area: D4*

- GEOG 336 - Asian Americans: Multiculturalism and Spatial Disparity *Units: 3 ; G.E./G.R. Area: D4*

D4

- GEOG 340 - Climate Change *Units: 3 ; G.E./G.R. Area: B6; Sustainability*

- GEOG 350 - California *Units: 3 ; G.E./G.R. Area: D4*

- GEOG 351 - United States and Canada *Units: 3 ; G.E./G.R. Area: D4*

- GEOG 352 - Latin America and the Caribbean *Units: 3 ; G.E./G.R. Area: D4*

- GEOG 353 - Africa *Units: 3 ; G.E./G.R. Area: D4*

- GEOG 354 - China: Economic Development and Social Transformation *Units: 3 ; G.E./G.R. Area: D4*

- GEOG 355 - Asia Pacific *Units: 3 ; G.E./G.R. Area: D4*

- GEOG 356 - Europe *Units: 3 ; G.E./G.R. Area: D4*

- GEOG 360 - Computer Cartography *Units: 3*

- GEOG 380 - Applied Field Studies *Units: 3*

- GEOG 397 - Issues in Anthropology, Geography and Environmental Studies *Units: 3*

- GEOG 398 - Internship *Units: 1-3*

- GEOG 425 - Advanced GIS *Units: 3*

- GEOG 445 - Water and Watershed Resources *Units: 4 ; G.E./G.R. Area: B6*

- GEOG 447 - Energy, Climate and Society *Units: 4 ; G.E./G.R. Area: B6; Sustainability*

- GEOG 450 - Earth Surface Processes and Landforms *Units: 3 ; G.E./G.R. Area: B6*

- GEOG 455 - Sustainable Food Systems *Units: 4 ; G.E./G.R. Area: D4; Sustainability*

- GEOG 461 - Remote Sensing of the Environment *Units: 3*

- GEOG 462 - Air Photo Interpretation *Units: 3*

- GEOG 465 - Sustainable Communities and Development *Units: 4 ; G.E./G.R. Area: D4; Sustainability*
- GEOG 490 - Independent Study *Units: 1-3*
- GEOG 497 - Issues in Geography *Units: 3*
- GEOG 499 - Senior Seminar in Geography *Units: 3*

Geography, B.S.: Regions and Cultures Concentration

Geography, B.S. Program (120 units)

Program Description

Geography is the study of spatial distributions, relations, processes and outcomes within the human-environment system. Attention is focused on historical and contemporary human activities in the natural and built environment, and on people as the major physical, social, cultural and economic change agents across the Earth's surface. A curriculum in Geography helps students understand the world's physical, social, economic and cultural landscapes and how they have been transformed or altered by either the Earth's natural processes or human modifications, and the future sustainability of our current actions in the light of our past experiences and ongoing trends such as urbanization, globalization and climate change.

At Cal State East Bay, Geography BS students can choose between three concentrations in addition to their common core of classes; Resources and Sustainability, Regions and Culture, and Spatial Techniques. These concentrations permit our majors to relatively easily dovetail into second majors, minors or certificate programs especially in Environmental Studies (BA and minor), International Studies (BA and minor), Certificate in Sustainability and Certificate in Cartography and GIS and to study abroad for a semester or year. A BS in Geography provides a valuable multi-perspective education of vital importance in this age of globalization and cumulative environmental change, a period that scientists are labeling the "Anthropocene". Graduates are primed to enter multiple professional fields or go on to a range of graduate programs related to environmental and resource management, planning and administration, sustainable development, and spatial data analysis. The major requires 43-47 units, 18 lower division and 25-29 upper division depending on the courses chosen for the pathway. The lower division portion aligns with the California Community College transfer Associate of Arts degree in Geography.

Career Opportunities

Career opportunities are highly diverse, depending on the student's interests and skills and new opportunities are rapidly emerging and expanding. Our graduates work in all sectors: governmental, non-profit, private, and education in areas such as environmental management, urban and rural planning, public utility services (water, energy, waste, etc.), outdoor recreation and administration (parks and recreation), local government, humanitarian and development assistance, sustainable food systems, education, and the application of geographical and other spatial information systems in the private and public sectors. Our students pursue graduate degrees in many fields including geography, urban and regional planning, environmental science, sustainability, geographical information systems, and other related disciplines.

Job titles include, but are not limited to:

Aerial Photo Interpreter • Agricultural/Food Systems Specialist • Cartographer • Census Analyst • Climatologist • Community Development Specialist • Demographer • Development Specialist • Ecologist • Economic Development Analyst • Environmental Analyst/Planner • Environmental Compliance Officer • Geographical Information Systems Specialist • Map Curator • Natural Resources Manager • Park Ranger • Public Utility Administrator • Recreational Resource Planner • Resiliency Officer • Soil Conservationist • Sustainability Coordinator • Transportation Planner • Urban Geographer • Utility Manager • Water Conservationist/Manager • Zoning Specialist/Surveyor

Program Learning Outcomes

Graduates with a BS degree in Geography should be able to:

1. Synthesize geographic knowledge, apply research strategies and use quantitative tools to solve problems of a geographic nature and relevant to a changing world (e.g. in resource management, spatial analysis, environmental change, and sustainable development)
2. Identify and communicate key geographical processes, ideas, concepts and outcomes orally, in writing, and through the use of geographical information systems (GIS) and other spatial representations
3. Identify, describe and explain the environmental, social, cultural, economic and other key characteristics and dynamics of different world regions
4. Demonstrate effective teamwork ability by contributing to successful execution of group projects in the classroom, GIS laboratory and/or in the field
5. Identify, describe and explain how local, regional and global environmental, human societal, and economic processes and their outcomes are related to sustainable development

Features

With the arrangement of a faculty advisor, students in the Bachelor of Science in Geography program can select from the following concentrations: Resources and Sustainability, Regions and Cultures, and Spatial Techniques.

The Resources and Sustainability pathway will allow the student to relatively easily, with the addition of one or two additional electives (for which they have plenty of room in their 120 units) satisfy the first of the two AGES certificate programs open to students from all majors; the Certificate in Sustainability is for those wanting a specialization in the field of sustainable resource and environmental management. Students may elect to pursue a double major with Environmental Studies should they wish to demonstrate added emphasis in this field to potential employers; this will require careful advising to ensure that the two degrees can be achieved by the right combination of double-counting electives and judicious overlapping between degree electives and GE.

The Regions and Cultures pathway is also designed to provide value-added opportunities for students; it permits seamless participation in one of our supported Study Abroad programs, especially the year long CSU International Programs. Students pursuing this pathway can satisfy all their pathway requirements studying in a foreign university, advancing to graduation in the major through studying equivalent classes overseas. The university has a goal to greatly expand the number of students studying abroad and Geography majors are prime candidates for these programs; with this pathway specifically tailored to students with global interests, the ability to study abroad for a year or semester with maximal incorporation of the overseas classes into satisfying the major requirements is enhanced.

The Regions and Cultures pathway also allows students to double major with the International Studies BA (INTS) should they wish to demonstrate added emphasis in the field of globalization and global

studies to potential employers. Courses taken for the geography pathway would satisfy the upper division emphasis required by INTS. Finally, the Spatial Techniques pathway will allow the student to satisfy the second of the two AGES certificate programs open to students from all majors; the Certificate in Cartography and GIS for those wanting to learn skills and methods in data collection, interpretation, and analysis as well as the design, compilation, production, and reproduction of maps. This is a growing field and students of any discipline, not just Geography, are in demand if they have the skill set obtained through this concentrated program of study.

In addition to these opportunities to double major in the closely allied disciplines of Environmental Studies (ENVT BA) and International Studies (INTS BA), the program offers an elective internship opportunity through GEOG 398 Cooperative Education, through which individual students can gain practical experience with public, private, or volunteer agencies and further develop their career goals and attractiveness to employers.

Degree Requirements Unit-Outline

- A baccalaureate of arts degree requires a total of 120 units:
 - The major requirements consists of 43-47 units
 - General Education (GE) & Graduation Requirements (GR) consists of 57 units;
 - Free Electives may consist of 16-20 units (*actual number of free elective units may depend on*

GE/GR units).

Note: It may be possible to double-count units within the graduation requirements or that a course may satisfy both a graduation requirement and a major requirement. Students should contact their program and AACE advisors for information.

Geography Major Requirements (43-47 units)

Lower Division Core

The lower-division coursework, for 18 units, are required as outlined.

Students must take all of the following five (5) courses for 15 units:

- **GEOG 110 - Physical Geography: Earth Processes and Outcomes** Units: 3 ;
G.E./G.R. Area: B1
- **GEOG 120 - Human Geography: Diversity and Globalization** Units: 3 ; *G.E./G.R. Area: D1-3*
- **GEOG 125 - World Regions and Development** Units: 3 ; *G.E./G.R. Area: D1-3*
- **GEOG 200 - Sustainable Resource Management** Units: 3 ; *G.E./G.R. Area: D1-3*
- **GEOG 225 - Fundamentals of GIS** Units: 3

Students must also take one (1) of the following for 3 units:

- **ENVT 101 - Environmental Challenges of the 21st Century** Units: 3 ; *G.E./G.R. Area: D1-3; Sustainability*
- **ANTH 130 - Introduction to Cultural Anthropology** Units: 3 ; *G.E./G.R. Area: D1-3*

Upper Division Core

Students must take all of the following three (3) upper-division core courses for 10 units:

- GEOG 310 - Literature and Research Methods *Units: 4*
- GEOG 340 - Climate Change *Units: 3 ; G.E./G.R. Area: B6; Sustainability*
- GEOG 425 - Advanced GIS *Units: 3*

Concentration Requirement

An additional 12-16 units of concentrated coursework is required to complete the major. Choose one (1) of the following concentrations:

Geography, B.S.: Regions and Cultures Concentration

Geography, B.S.: Resources and Sustainability Concentration

Geography, B.S.: Spatial Techniques Concentration

Capstone Requirement

The following capstone experience, for 3 units, is required to complete the major:

- GEOG 499 - Senior Seminar in Geography *Units: 3*

Regions and Cultures Concentration

The Regions and Cultures concentration consists of 12 units. Students must choose four (4) of the following courses:

- GEOG 330 - Historical Geography of North America *Units: 3 ; G.E./G.R. Area: D4*
- GEOG 336 - Asian Americans: Multiculturalism and Spatial Disparity *Units: 3 ; G.E./G.R. Area: D4*
- GEOG 350 - California *Units: 3 ; G.E./G.R. Area: D4*
- GEOG 351 - United States and Canada *Units: 3 ; G.E./G.R. Area: D4*
- GEOG 352 - Latin America and the Caribbean *Units: 3 ; G.E./G.R. Area: D4*
- GEOG 353 - Africa *Units: 3 ; G.E./G.R. Area: D4*
- GEOG 354 - China: Economic Development and Social Transformation
Units: 3 ; G.E./G.R. Area: D4
- GEOG 355 - Asia Pacific *Units: 3 ; G.E./G.R. Area: D4*
- GEOG 356 - Europe *Units: 3 ; G.E./G.R. Area: D4*

Other Undergraduate Degree Requirements

In addition to major requirements, every student must also complete the University's baccalaureate requirements for graduation, which are described in the Requirements, Exams & Testing chapter of this catalog.

Department Courses Listed by Course Type

Anthropology, Geography, and Environmental Studies Courses

Department of Anthropology, Geography and Environmental Studies

Go to information for this department.

Courses

Anthropology

- ANTH 100 - Introduction to Anthropology *Units: 3 ; G.E./G.R. Area: D1-3*
- ANTH 110 - Introduction to Biological Anthropology *Units: 3 ; G.E./G.R. Area: B2*
- ANTH 120 - Introduction to Archaeology *Units: 3 ; G.E./G.R. Area: B1*
- ANTH 130 - Introduction to Cultural Anthropology *Units: 3 ; G.E./G.R. Area: D1-3*
- ANTH 140 - Introduction to Linguistic Anthropology *Units: 3 ; G.E./G.R. Area: D1-3*
- ANTH 300 - Anthropology of Global Change *Units: 3 ; G.E./G.R. Area: D4*
- ANTH 490 - Independent Study *Units: 1-4*
- ANTH 497 - Issues in Anthropology *Units: 3*

Anthropology: Applied Anthropology

- ANTH 370 - Anthropology in Action *Units: 3*
- ANTH 371 - Business Anthropology *Units: 3 ; G.E./G.R. Area: D4*
- ANTH 372 - Medical Anthropology *Units: 3 ; G.E./G.R. Area: D4; Diversity*
- ANTH 377 - Museum Studies Anthropology *Units: 3*
- ANTH 398 - Internship *Units: 1-3*

Anthropology: Archaeology

- ANTH 320 - Archaeological Science *Units: 3*
- ANTH 321 - Archaeology of the Americas *Units: 3 ; G.E./G.R. Area: D4*

Anthropology: Area Studies

- ANTH 350 - Indians of California *Units: 3 ; G.E./G.R. Area: D4*
- ANTH 354 - China *Units: 3 ; G.E./G.R. Area: D4*
- ANTH 355 - Japan *Units: 3*

Anthropology: Biological Anthropology

- ANTH 310 - Evolutionary Biology of Humans *Units: 3 ; G.E./G.R. Area: B6*
- ANTH 311 - Human Fossil Record *Units: 3 ; G.E./G.R. Area: B6*
- ANTH 312 - Primate Behavioral Ecology *Units: 3 ; G.E./G.R. Area: D4*

Anthropology: Methods

- ANTH 410 - Bioarchaeology Laboratory *Units: 3*
- ANTH 411 - Human Forensic Osteology *Units: 3*
- ANTH 420 - Archaeology Laboratory *Units: 3*
- ANTH 421 - Field Archaeology *Units: 3*
- ANTH 430 - Field Course in Ethnography *Units: 3*

Anthropology: Linguistic Anthropology

- ANTH 340 - Language and Culture *Units: 3 ; G.E./G.R. Area: D4*
- ANTH 341 - Linguistic Diversity and Social Justice *Units: 3 ; G.E./G.R. Area: D4; Social Justice*
- ANTH 342 - Language and Sexuality *Units: 3 ; G.E./G.R. Area: D4; Diversity*

Anthropology: Sociocultural Anthropology

- ANTH 330 - Social Anthropology *Units: 3*

- ANTH 331 - Folklore *Units: 3 ; G.E./G.R. Area: D4*
- ANTH 333 - Women in Cross-Cultural Perspective *Units: 3 ; G.E./G.R. Area: D4; Social Justice*
- ANTH 334 - Human Sexuality: Anthropological Perspectives *Units: 3 ; G.E./G.R. Area: D4*
- ANTH 431 - Advanced Anthropological Theory *Units: 3*

Environmental Science: Graduate

- ENSC 633 - The Science of Soils *Units: 4*

Environmental Studies

- ENVT 101 - Environmental Challenges of the 21st Century *Units: 3 ; G.E./G.R. Area: D1-3; Sustainability*
- ENVT 225 - Fundamentals of GIS *Units: 3*
- ENVT 307 - Social Impact through Sustainable Solar Design *Units: 3 ; G.E./G.R. Area: B6; Sustainability*
- ENVT 310 - Literature and Research Methods *Units: 4*
- ENVT 320 - Environmental Resource Analysis *Units: 4*
- ENVT 330 - Environment, Sustainability, and Social Justice *Units: 3 ; G.E./G.R. Area: D4; Sustainability*
- ENVT 340 - Climate Change *Units: 3 ; G.E./G.R. Area: B6; Sustainability*
- ENVT 380 - Applied Field Studies *Units: 3*
- ENVT 398 - Internship *Units: 1-3*
- ENVT 410 - Environmental Impact Analysis *Units: 3*
- ENVT 445 - Water and Watershed Resources *Units: 4 ; G.E./G.R. Area: B6*
- ENVT 447 - Energy, Climate and Society *Units: 4 ; G.E./G.R. Area: B6; Sustainability*
- ENVT 465 - Sustainable Communities and Development *Units: 4 ; G.E./G.R. Area: D4; Sustainability*
- ENVT 490 - Independent Study *Units: 1-3*
- ENVT 493 - Environmental Projects *Units: 3*
- ENVT 495 - Environmental Internship *Units: 1-3*

Geography

- GEOG 110 - Physical Geography: Earth Processes and Outcomes *Units: 3 ; G.E./G.R. Area: B1*
- GEOG 120 - Human Geography: Diversity and Globalization *Units: 3 ; G.E./G.R. Area: D1-3*
- GEOG 125 - World Regions and Development *Units: 3 ; G.E./G.R. Area: D1-3*
- GEOG 200 - Sustainable Resource Management *Units: 3 ; G.E./G.R. Area: D1-3*
- GEOG 225 - Fundamentals of GIS *Units: 3*
- GEOG 310 - Literature and Research Methods *Units: 4*
- GEOG 320 - Environmental Resource Analysis *Units: 4*
- GEOG 330 - Historical Geography of North America *Units: 3 ; G.E./G.R. Area: D4*
- GEOG 336 - Asian Americans: Multiculturalism and Spatial Disparity *Units: 3 ; G.E./G.R. Area: D4*
- GEOG 340 - Climate Change *Units: 3 ; G.E./G.R. Area: B6; Sustainability*
- GEOG 350 - California *Units: 3 ; G.E./G.R. Area: D4*
- GEOG 351 - United States and Canada *Units: 3 ; G.E./G.R. Area: D4*
- GEOG 352 - Latin America and the Caribbean *Units: 3 ; G.E./G.R. Area: D4*
- GEOG 353 - Africa *Units: 3 ; G.E./G.R. Area: D4*
- GEOG 354 - China: Economic Development and Social Transformation *Units: 3 ; G.E./G.R. Area: D4*
- GEOG 355 - Asia Pacific *Units: 3 ; G.E./G.R. Area: D4*
- GEOG 356 - Europe *Units: 3 ; G.E./G.R. Area: D4*
- GEOG 360 - Computer Cartography *Units: 3*
- GEOG 380 - Applied Field Studies *Units: 3*

- GEOG 397 - Issues in Anthropology, Geography and Environmental Studies *Units: 3*
- GEOG 398 - Internship *Units: 1-3*
- GEOG 425 - Advanced GIS *Units: 3*
- GEOG 445 - Water and Watershed Resources *Units: 4 ; G.E./G.R. Area: B6*
- GEOG 447 - Energy, Climate and Society *Units: 4 ; G.E./G.R. Area: B6; Sustainability*
- GEOG 450 - Earth Surface Processes and Landforms *Units: 3 ; G.E./G.R. Area: B6*
- GEOG 455 - Sustainable Food Systems *Units: 4 ; G.E./G.R. Area: D4; Sustainability*
- GEOG 461 - Remote Sensing of the Environment *Units: 3*
- GEOG 462 - Air Photo Interpretation *Units: 3*
- GEOG 465 - Sustainable Communities and Development *Units: 4 ; G.E./G.R. Area: D4; Sustainability*
- GEOG 490 - Independent Study *Units: 1-3*
- GEOG 497 - Issues in Geography *Units: 3*
- GEOG 499 - Senior Seminar in Geography *Units: 3*

Geography, B.S.: Resources and Sustainability Concentration

Geography, B.S. Program (120 units)

Program Description

Geography is the study of spatial distributions, relations, processes and outcomes within the human-environment system. Attention is focused on historical and contemporary human activities in the natural and built environment, and on people as the major physical, social, cultural and economic change agents across the Earth's surface. A curriculum in Geography helps students understand the world's physical, social, economic and cultural landscapes and how they have been transformed or altered by either the Earth's natural processes or human modifications, and the future sustainability of our current actions in the light of our past experiences and ongoing trends such as urbanization, globalization and climate change.

At Cal State East Bay, Geography BS students can choose between three concentrations in addition to their common core of classes; Resources and Sustainability, Regions and Culture, and Spatial Techniques. These concentrations permit our majors to relatively easily dovetail into second majors, minors or certificate programs especially in Environmental Studies (BA and minor), International Studies (BA and minor), Certificate in Sustainability and Certificate in Cartography and GIS and to study abroad for a semester or year. A BS in Geography provides a valuable multi-perspective education of vital importance in this age of globalization and cumulative environmental change, a period that scientists are labeling the "Anthropocene". Graduates are primed to enter multiple professional fields or go on to a range of graduate programs related to environmental and resource management, planning and administration, sustainable development, and spatial data analysis. The major requires 43-47 units, 18 lower division and 25-29 upper division depending on the courses chosen for the pathway. The lower division portion aligns with the California Community College transfer Associate of Arts degree in Geography.

Career Opportunities

Career opportunities are highly diverse, depending on the student's interests and skills and new opportunities are rapidly emerging and expanding. Our graduates work in all sectors: governmental, non-profit, private, and education in areas such as environmental management, urban and rural planning,

public utility services (water, energy, waste, etc.), outdoor recreation and administration (parks and recreation), local government, humanitarian and development assistance, sustainable food systems, education, and the application of geographical and other spatial information systems in the private and public sectors. Our students pursue graduate degrees in many fields including geography, urban and regional planning, environmental science, sustainability, geographical information systems, and other related disciplines.

Job titles include, but are not limited to:

Aerial Photo Interpreter • Agricultural/Food Systems Specialist • Cartographer • Census Analyst • Climatologist • Community Development Specialist • Demographer • Development Specialist • Ecologist • Economic Development Analyst • Environmental Analyst/Planner • Environmental Compliance Officer • Geographical Information Systems Specialist • Map Curator • Natural Resources Manager • Park Ranger • Public Utility Administrator • Recreational Resource Planner • Resiliency Officer • Soil Conservationist • Sustainability Coordinator • Transportation Planner • Urban Geographer • Utility Manager • Water Conservationist/Manager • Zoning Specialist/Surveyor

Program Learning Outcomes

Graduates with a BS degree in Geography should be able to:

1. Synthesize geographic knowledge, apply research strategies and use quantitative tools to solve problems of a geographic nature and relevant to a changing world (e.g. in resource management, spatial analysis, environmental change, and sustainable development)
2. Identify and communicate key geographical processes, ideas, concepts and outcomes orally, in writing, and through the use of geographical information systems (GIS) and other spatial representations
3. Identify, describe and explain the environmental, social, cultural, economic and other key characteristics and dynamics of different world regions
4. Demonstrate effective teamwork ability by contributing to successful execution of group projects in the classroom, GIS laboratory and/or in the field
5. Identify, describe and explain how local, regional and global environmental, human societal, and economic processes and their outcomes are related to sustainable development

Features

With the arrangement of a faculty advisor, students in the Bachelor of Science in Geography program can select from the following concentrations: Resources and Sustainability, Regions and Cultures, and Spatial Techniques.

The Resources and Sustainability pathway will allow the student to relatively easily, with the addition of one or two additional electives (for which they have plenty of room in their 120 units) satisfy the first of the two AGES certificate programs open to students from all majors; the Certificate in Sustainability is for those wanting a specialization in the field of sustainable resource and environmental management. Students may elect to pursue a double major with Environmental Studies should they wish to demonstrate added emphasis in this field to potential employers; this will require careful advising to ensure that the two degrees can be achieved by the right combination of double-counting electives and judicious overlapping between degree electives and GE.

The Regions and Cultures pathway is also designed to provide value-added opportunities for students; it permits seamless participation in one of our supported Study Abroad programs, especially the year long CSU International Programs. Students pursuing this pathway can satisfy all their pathway requirements studying in a foreign university, advancing to graduation in the major through studying equivalent classes overseas. The university has a goal to greatly expand the number of students studying abroad and Geography majors are prime candidates for these programs; with this pathway specifically tailored to students with global interests, the ability to study abroad for a year or semester with maximal incorporation of the overseas classes into satisfying the major requirements is enhanced.

The Regions and Cultures pathway also allows students to double major with the International Studies BA (INTS) should they wish to demonstrate added emphasis in the field of globalization and global studies to potential employers. Courses taken for the geography pathway would satisfy the upper division emphasis required by INTS. Finally, the Spatial Techniques pathway will allow the student to satisfy the second of the two AGES certificate programs open to students from all majors; the Certificate in Cartography and GIS for those wanting to learn skills and methods in data collection, interpretation, and analysis as well as the design, compilation, production, and reproduction of maps. This is a growing field and students of any discipline, not just Geography, are in demand if they have the skill set obtained through this concentrated program of study.

In addition to these opportunities to double major in the closely allied disciplines of Environmental Studies (ENVT BA) and International Studies (INTS BA), the program offers an elective internship opportunity through GEOG 398 Cooperative Education, through which individual students can gain practical experience with public, private, or volunteer agencies and further develop their career goals and attractiveness to employers.

Degree Requirements Unit-Outline

- A baccalaureate of arts degree requires a total of 120 units:
 - The major requirements consists of 43-47 units
 - General Education (GE) & Graduation Requirements (GR) consists of 57 units;
 - Free Electives may consist of 16-20 units (*actual number of free elective units may depend on GE/GR units*).

Note: It may be possible to double-count units within the graduation requirements or that a course may satisfy both a graduation requirement and a major requirement. Students should contact their program and AACE advisors for information.

Geography Major Requirements (43-47 units)

Lower Division Core

The lower-division coursework, for 18 units, are required as outlined.

Students must take all of the following five (5) courses for 15 units:

- GEOG 110 - Physical Geography: Earth Processes and Outcomes Units: 3 ; G.E./G.R. Area: B1
- GEOG 120 - Human Geography: Diversity and Globalization Units: 3 ; G.E./G.R. Area: D1-3
- GEOG 125 - World Regions and Development Units: 3 ; G.E./G.R. Area: D1-3
- GEOG 200 - Sustainable Resource Management Units: 3 ; G.E./G.R. Area: D1-3

- **GEOG 225 - Fundamentals of GIS** *Units: 3*

Students must also take one (1) of the following for 3 units:

- **ENVT 101 - Environmental Challenges of the 21st Century** *Units: 3 ; G.E./G.R. Area: D1-3; Sustainability*
- **ANTH 130 - Introduction to Cultural Anthropology** *Units: 3 ; G.E./G.R. Area: D1-3*

Upper Division Core

Students must take all of the following three (3) upper-division core courses for 10 units:

- **GEOG 310 - Literature and Research Methods** *Units: 4*
- **GEOG 340 - Climate Change** *Units: 3 ; G.E./G.R. Area: B6; Sustainability*
- **GEOG 425 - Advanced GIS** *Units: 3*

Concentration Requirement

An additional 12-16 units of concentrated coursework is required to complete the major. Choose one (1) of the following concentrations:

Geography, B.S.: Regions and Cultures Concentration

Geography, B.S.: Resources and Sustainability Concentration

Geography, B.S.: Spatial Techniques Concentration

Capstone Requirement

The following capstone experience, for 3 units, is required to complete the major:

- **GEOG 499 - Senior Seminar in Geography** *Units: 3*

Resources and Sustainability Concentration

The Resources and Sustainability concentration consists of 15-16 units. Students must choose four (4) of the following courses:

- **GEOG 445 - Water and Watershed Resources** *Units: 4 ; G.E./G.R. Area: B6*
- **GEOG 447 - Energy, Climate and Society** *Units: 4 ; G.E./G.R. Area: B6; Sustainability*
- **GEOG 450 - Earth Surface Processes and Landforms** *Units: 3 ; G.E./G.R. Area: B6*
- **GEOG 455 - Sustainable Food Systems** *Units: 4 ; G.E./G.R. Area: D4; Sustainability*
- **GEOG 465 - Sustainable Communities and Development** *Units: 4 ; G.E./G.R. Area: D4; Sustainability*

Other Undergraduate Degree Requirements

In addition to major requirements, every student must also complete the University's baccalaureate requirements for graduation, which are described in the Requirements, Exams & Testing chapter of this catalog.

Department Courses Listed by Course Type

Anthropology, Geography, and Environmental Studies Courses

Department of Anthropology, Geography and Environmental Studies

Go to information for this department.

Courses

Anthropology

- ANTH 100 - Introduction to Anthropology *Units: 3 ; G.E./G.R. Area: D1-3*
- ANTH 110 - Introduction to Biological Anthropology *Units: 3 ; G.E./G.R. Area: B2*
- ANTH 120 - Introduction to Archaeology *Units: 3 ; G.E./G.R. Area: B1*
- ANTH 130 - Introduction to Cultural Anthropology *Units: 3 ; G.E./G.R. Area: D1-3*
- ANTH 140 - Introduction to Linguistic Anthropology *Units: 3 ; G.E./G.R. Area: D1-3*
- ANTH 300 - Anthropology of Global Change *Units: 3 ; G.E./G.R. Area: D4*
- ANTH 490 - Independent Study *Units: 1-4*
- ANTH 497 - Issues in Anthropology *Units: 3*

Anthropology: Applied Anthropology

- ANTH 370 - Anthropology in Action *Units: 3*
- ANTH 371 - Business Anthropology *Units: 3 ; G.E./G.R. Area: D4*
- ANTH 372 - Medical Anthropology *Units: 3 ; G.E./G.R. Area: D4; Diversity*
- ANTH 377 - Museum Studies Anthropology *Units: 3*
- ANTH 398 - Internship *Units: 1-3*

Anthropology: Archaeology

- ANTH 320 - Archaeological Science *Units: 3*
- ANTH 321 - Archaeology of the Americas *Units: 3 ; G.E./G.R. Area: D4*

Anthropology: Area Studies

- ANTH 350 - Indians of California *Units: 3 ; G.E./G.R. Area: D4*
- ANTH 354 - China *Units: 3 ; G.E./G.R. Area: D4*
- ANTH 355 - Japan *Units: 3*

Anthropology: Biological Anthropology

- ANTH 310 - Evolutionary Biology of Humans *Units: 3 ; G.E./G.R. Area: B6*
- ANTH 311 - Human Fossil Record *Units: 3 ; G.E./G.R. Area: B6*
- ANTH 312 - Primate Behavioral Ecology *Units: 3 ; G.E./G.R. Area: D4*

Anthropology: Methods

- ANTH 410 - Bioarchaeology Laboratory *Units: 3*
- ANTH 411 - Human Forensic Osteology *Units: 3*
- ANTH 420 - Archaeology Laboratory *Units: 3*
- ANTH 421 - Field Archaeology *Units: 3*

- ANTH 430 - Field Course in Ethnography *Units: 3*

Anthropology: Linguistic Anthropology

- ANTH 340 - Language and Culture *Units: 3 ; G.E./G.R. Area: D4*
- ANTH 341 - Linguistic Diversity and Social Justice *Units: 3 ; G.E./G.R. Area: D4; Social Justice*
- ANTH 342 - Language and Sexuality *Units: 3 ; G.E./G.R. Area: D4; Diversity*

Anthropology: Sociocultural Anthropology

- ANTH 330 - Social Anthropology *Units: 3*
- ANTH 331 - Folklore *Units: 3 ; G.E./G.R. Area: D4*
- ANTH 333 - Women in Cross-Cultural Perspective *Units: 3 ; G.E./G.R. Area: D4; Social Justice*
- ANTH 334 - Human Sexuality: Anthropological Perspectives *Units: 3 ; G.E./G.R. Area: D4*
- ANTH 431 - Advanced Anthropological Theory *Units: 3*

Environmental Science: Graduate

- ENSC 633 - The Science of Soils *Units: 4*

Environmental Studies

- ENVT 101 - Environmental Challenges of the 21st Century *Units: 3 ; G.E./G.R. Area: D1-3; Sustainability*
- ENVT 225 - Fundamentals of GIS *Units: 3*
- ENVT 307 - Social Impact through Sustainable Solar Design *Units: 3 ; G.E./G.R. Area: B6; Sustainability*
- ENVT 310 - Literature and Research Methods *Units: 4*
- ENVT 320 - Environmental Resource Analysis *Units: 4*
- ENVT 330 - Environment, Sustainability, and Social Justice *Units: 3 ; G.E./G.R. Area: D4; Sustainability*
- ENVT 340 - Climate Change *Units: 3 ; G.E./G.R. Area: B6; Sustainability*
- ENVT 380 - Applied Field Studies *Units: 3*
- ENVT 398 - Internship *Units: 1-3*
- ENVT 410 - Environmental Impact Analysis *Units: 3*
- ENVT 445 - Water and Watershed Resources *Units: 4 ; G.E./G.R. Area: B6*
- ENVT 447 - Energy, Climate and Society *Units: 4 ; G.E./G.R. Area: B6; Sustainability*
- ENVT 465 - Sustainable Communities and Development *Units: 4 ; G.E./G.R. Area: D4; Sustainability*
- ENVT 490 - Independent Study *Units: 1-3*
- ENVT 493 - Environmental Projects *Units: 3*
- ENVT 495 - Environmental Internship *Units: 1-3*

Geography

- GEOG 110 - Physical Geography: Earth Processes and Outcomes *Units: 3 ; G.E./G.R. Area: B1*
- GEOG 120 - Human Geography: Diversity and Globalization *Units: 3 ; G.E./G.R. Area: D1-3*
- GEOG 125 - World Regions and Development *Units: 3 ; G.E./G.R. Area: D1-3*
- GEOG 200 - Sustainable Resource Management *Units: 3 ; G.E./G.R. Area: D1-3*
- GEOG 225 - Fundamentals of GIS *Units: 3*
- GEOG 310 - Literature and Research Methods *Units: 4*
- GEOG 320 - Environmental Resource Analysis *Units: 4*
- GEOG 330 - Historical Geography of North America *Units: 3 ; G.E./G.R. Area: D4*
- GEOG 336 - Asian Americans: Multiculturalism and Spatial Disparity *Units: 3 ; G.E./G.R. Area: D4*
- GEOG 340 - Climate Change *Units: 3 ; G.E./G.R. Area: B6; Sustainability*
- GEOG 350 - California *Units: 3 ; G.E./G.R. Area: D4*
- GEOG 351 - United States and Canada *Units: 3 ; G.E./G.R. Area: D4*

- • GEOG 352 - Latin America and the Caribbean *Units: 3 ; G.E./G.R. Area: D4*
- • GEOG 353 - Africa *Units: 3 ; G.E./G.R. Area: D4*
- • GEOG 354 - China: Economic Development and Social Transformation *Units: 3 ; G.E./G.R. Area: D4*
- • GEOG 355 - Asia Pacific *Units: 3 ; G.E./G.R. Area: D4*
- • GEOG 356 - Europe *Units: 3 ; G.E./G.R. Area: D4*
- • GEOG 360 - Computer Cartography *Units: 3*
- • GEOG 380 - Applied Field Studies *Units: 3*
- • GEOG 397 - Issues in Anthropology, Geography and Environmental Studies *Units: 3*
- • GEOG 398 - Internship *Units: 1-3*
- • GEOG 425 - Advanced GIS *Units: 3*
- • GEOG 445 - Water and Watershed Resources *Units: 4 ; G.E./G.R. Area: B6*
- • GEOG 447 - Energy, Climate and Society *Units: 4 ; G.E./G.R. Area: B6; Sustainability*
- • GEOG 450 - Earth Surface Processes and Landforms *Units: 3 ; G.E./G.R. Area: B6*
- • GEOG 455 - Sustainable Food Systems *Units: 4 ; G.E./G.R. Area: D4; Sustainability*
- • GEOG 461 - Remote Sensing of the Environment *Units: 3*
- • GEOG 462 - Air Photo Interpretation *Units: 3*
- • GEOG 465 - Sustainable Communities and Development *Units: 4 ; G.E./G.R. Area: D4;*
- • GEOG 490 - Independent Study *Units: 1-3*
- • GEOG 497 - Issues in Geography *Units: 3*
- • GEOG 499 - Senior Seminar in Geography *Units: 3*

Geography, B.S.: Spatial Techniques Concentration

Geography, B.S. Program (120 units)

Program Description

Geography is the study of spatial distributions, relations, processes and outcomes within the human-environment system. Attention is focused on historical and contemporary human activities in the natural and built environment, and on people as the major physical, social, cultural and economic change agents across the Earth's surface. A curriculum in Geography helps students understand the world's physical, social, economic and cultural landscapes and how they have been transformed or altered by either the Earth's natural processes or human modifications, and the future sustainability of our current actions in the light of our past experiences and ongoing trends such as urbanization, globalization and climate change.

At Cal State East Bay, Geography BS students can choose between three concentrations in addition to their common core of classes; Resources and Sustainability, Regions and Culture, and Spatial Techniques. These concentrations permit our majors to relatively easily dovetail into second majors, minors or certificate programs especially in Environmental Studies (BA and minor), International Studies (BA and minor), Certificate in Sustainability and Certificate in Cartography and GIS and to study abroad for a semester or year. A BS in Geography provides a valuable multi-perspective education of vital importance in this age of globalization and cumulative environmental change, a period that scientists are labeling the "Anthropocene". Graduates are primed to enter multiple professional fields or go on to a range of graduate programs related to environmental and resource management, planning and administration, sustainable development, and spatial data analysis. The major requires 43-47 units, 18 lower division and 25-29 upper division depending on the courses chosen for the pathway. The lower

division portion aligns with the California Community College transfer Associate of Arts degree in Geography.

Career Opportunities

Career opportunities are highly diverse, depending on the student's interests and skills and new opportunities are rapidly emerging and expanding. Our graduates work in all sectors: governmental, non-profit, private, and education in areas such as environmental management, urban and rural planning, public utility services (water, energy, waste, etc.), outdoor recreation and administration (parks and recreation), local government, humanitarian and development assistance, sustainable food systems, education, and the application of geographical and other spatial information systems in the private and public sectors. Our students pursue graduate degrees in many fields including geography, urban and regional planning, environmental science, sustainability, geographical information systems, and other related disciplines.

Job titles include, but are not limited to:

Aerial Photo Interpreter • Agricultural/Food Systems Specialist • Cartographer • Census Analyst • Climatologist • Community Development Specialist • Demographer • Development Specialist • Ecologist • Economic Development Analyst • Environmental Analyst/Planner • Environmental Compliance Officer • Geographical Information Systems Specialist • Map Curator • Natural Resources Manager • Park Ranger • Public Utility Administrator • Recreational Resource Planner • Resiliency Officer • Soil Conservationist • Sustainability Coordinator • Transportation Planner • Urban Geographer • Utility Manager • Water Conservationist/Manager • Zoning Specialist/Surveyor

Program Learning Outcomes

Graduates with a BS degree in Geography should be able to:

1. Synthesize geographic knowledge, apply research strategies and use quantitative tools to solve problems of a geographic nature and relevant to a changing world (e.g. in resource management, spatial analysis, environmental change, and sustainable development)
2. Identify and communicate key geographical processes, ideas, concepts and outcomes orally, in writing, and through the use of geographical information systems (GIS) and other spatial representations
3. Identify, describe and explain the environmental, social, cultural, economic and other key characteristics and dynamics of different world regions
4. Demonstrate effective teamwork ability by contributing to successful execution of group projects in the classroom, GIS laboratory and/or in the field
5. Identify, describe and explain how local, regional and global environmental, human societal, and economic processes and their outcomes are related to sustainable development

Features

With the arrangement of a faculty advisor, students in the Bachelor of Science in Geography program can select from the following concentrations: Resources and Sustainability, Regions and Cultures, and Spatial Techniques.

The Resources and Sustainability pathway will allow the student to relatively easily, with the addition of one or two additional electives (for which they have plenty of room in their 120 units) satisfy the first of

the two AGES certificate programs open to students from all majors; the Certificate in Sustainability is for those wanting a specialization in the field of sustainable resource and environmental management. Students may elect to pursue a double major with Environmental Studies should they wish to demonstrate added emphasis in this field to potential employers; this will require careful advising to ensure that the two degrees can be achieved by the right combination of double-counting electives and judicious overlapping between degree electives and GE.

The Regions and Cultures pathway is also designed to provide value-added opportunities for students; it permits seamless participation in one of our supported Study Abroad programs, especially the year long CSU International Programs. Students pursuing this pathway can satisfy all their pathway requirements studying in a foreign university, advancing to graduation in the major through studying equivalent classes overseas. The university has a goal to greatly expand the number of students studying abroad and Geography majors are prime candidates for these programs; with this pathway specifically tailored to students with global interests, the ability to study abroad for a year or semester with maximal incorporation of the overseas classes into satisfying the major requirements is enhanced.

The Regions and Cultures pathway also allows students to double major with the International Studies BA (INTS) should they wish to demonstrate added emphasis in the field of globalization and global studies to potential employers. Courses taken for the geography pathway would satisfy the upper division emphasis required by INTS. Finally, the Spatial Techniques pathway will allow the student to satisfy the second of the two AGES certificate programs open to students from all majors; the Certificate in Cartography and GIS for those wanting to learn skills and methods in data collection, interpretation, and analysis as well as the design, compilation, production, and reproduction of maps. This is a growing field and students of any discipline, not just Geography, are in demand if they have the skill set obtained through this concentrated program of study.

In addition to these opportunities to double major in the closely allied disciplines of Environmental Studies (ENVT BA) and International Studies (INTS BA), the program offers an elective internship opportunity through GEOG 398 Cooperative Education, through which individual students can gain practical experience with public, private, or volunteer agencies and further develop their career goals and attractiveness to employers.

Degree Requirements Unit-Outline

- A baccalaureate of arts degree requires a total of 120 units:
 - The major requirements consists of 43-47 units
 - General Education (GE) & Graduation Requirements (GR) consists of 57 units;
 - Free Electives may consist of 16-20 units (*actual number of free elective units may depend on GE/GR units*).

Note: It may be possible to double-count units within the graduation requirements or that a course may satisfy both a graduation requirement and a major requirement. Students should contact their program and AACE advisors for information.

Geography Major Requirements (43-47 units)

Lower Division Core

The lower-division coursework, for 18 units, are required as outlined.

Students must take all of the following five (5) courses for 15 units:

- **GEOG 110 - Physical Geography: Earth Processes and Outcomes** *Units: 3 ; G.E./G.R. Area: B1*
- **GEOG 120 - Human Geography: Diversity and Globalization** *Units: 3 ; G.E./G.R. Area: D1-3*
- **GEOG 125 - World Regions and Development** *Units: 3 ; G.E./G.R. Area: D1-3*
- **GEOG 200 - Sustainable Resource Management** *Units: 3 ; G.E./G.R. Area: D1-3*
- **GEOG 225 - Fundamentals of GIS** *Units: 3*

Students must also take one (1) of the following for 3 units:

- **ENVT 101 - Environmental Challenges of the 21st Century** *Units: 3 ; G.E./G.R. Area: D1-3; Sustainability*
- **ANTH 130 - Introduction to Cultural Anthropology** *Units: 3 ; G.E./G.R. Area: D1-3*

Upper Division Core

Students must take all of the following three (3) upper-division core courses for 10 units:

- **GEOG 310 - Literature and Research Methods** *Units: 4*
- **GEOG 340 - Climate Change** *Units: 3 ; G.E./G.R. Area: B6; Sustainability*
- **GEOG 425 - Advanced GIS** *Units: 3*

Concentration Requirement

An additional 12-16 units of concentrated coursework is required to complete the major. Choose one (1) of the following concentrations:

Geography, B.S.: Regions and Cultures Concentration

Geography, B.S.: Resources and Sustainability Concentration

Geography, B.S.: Spatial Techniques Concentration

Capstone Requirement

The following capstone experience, for 3 units, is required to complete the major:

- **GEOG 499 - Senior Seminar in Geography** *Units: 3*

Spatial Techniques Concentration

The Spatial Techniques concentration consists of 12-13 units. Students must choose four (4) of the following courses:

- **GEOG 320 - Environmental Resource Analysis** *Units: 4*
- **GEOG 360 - Computer Cartography** *Units: 3*
- **GEOG 380 - Applied Field Studies** *Units: 3*
- **GEOG 461 - Remote Sensing of the Environment** *Units: 3*
- **GEOG 462 - Air Photo Interpretation** *Units: 3*

Other Undergraduate Degree Requirements

In addition to major requirements, every student must also complete the University's baccalaureate requirements for graduation, which are described in the Requirements, Exams & Testing chapter of this catalog.

Department Courses Listed by Course Type

Anthropology, Geography, and Environmental Studies Courses

Department of Anthropology, Geography and Environmental Studies

Go to information for this department.

Courses

Anthropology

- ANTH 100 - Introduction to Anthropology *Units: 3 ; G.E./G.R. Area: D1-3*
- ANTH 110 - Introduction to Biological Anthropology *Units: 3 ; G.E./G.R. Area: B2*
- ANTH 120 - Introduction to Archaeology *Units: 3 ; G.E./G.R. Area: B1*
- ANTH 130 - Introduction to Cultural Anthropology *Units: 3 ; G.E./G.R. Area: D1-3*
- ANTH 140 - Introduction to Linguistic Anthropology *Units: 3 ; G.E./G.R. Area: D1-3*
- ANTH 300 - Anthropology of Global Change *Units: 3 ; G.E./G.R. Area: D4*
- ANTH 490 - Independent Study *Units: 1-4*
- ANTH 497 - Issues in Anthropology *Units: 3*

Anthropology: Applied Anthropology

- ANTH 370 - Anthropology in Action *Units: 3*
- ANTH 371 - Business Anthropology *Units: 3 ; G.E./G.R. Area: D4*
- ANTH 372 - Medical Anthropology *Units: 3 ; G.E./G.R. Area: D4; Diversity*
- ANTH 377 - Museum Studies Anthropology *Units: 3*
- ANTH 398 - Internship *Units: 1-3*

Anthropology: Archaeology

- ANTH 320 - Archaeological Science *Units: 3*
- ANTH 321 - Archaeology of the Americas *Units: 3 ; G.E./G.R. Area: D4*

Anthropology: Area Studies

- ANTH 350 - Indians of California *Units: 3 ; G.E./G.R. Area: D4*
- ANTH 354 - China *Units: 3 ; G.E./G.R. Area: D4*
- ANTH 355 - Japan *Units: 3*

Anthropology: Biological Anthropology

- ANTH 310 - Evolutionary Biology of Humans *Units: 3 ; G.E./G.R. Area: B6*
- ANTH 311 - Human Fossil Record *Units: 3 ; G.E./G.R. Area: B6*
- ANTH 312 - Primate Behavioral Ecology *Units: 3 ; G.E./G.R. Area: D4*

Anthropology: Methods

- ANTH 410 - Bioarchaeology Laboratory *Units: 3*
- ANTH 411 - Human Forensic Osteology *Units: 3*

- ANTH 420 - Archaeology Laboratory *Units: 3*
- ANTH 421 - Field Archaeology *Units: 3*
- ANTH 430 - Field Course in Ethnography *Units: 3*

Anthropology: Linguistic Anthropology

- ANTH 340 - Language and Culture *Units: 3 ; G.E./G.R. Area: D4*
- ANTH 341 - Linguistic Diversity and Social Justice *Units: 3 ; G.E./G.R. Area: D4; Social Justice*
- ANTH 342 - Language and Sexuality *Units: 3 ; G.E./G.R. Area: D4; Diversity*

Anthropology: Sociocultural Anthropology

- ANTH 330 - Social Anthropology *Units: 3*
- ANTH 331 - Folklore *Units: 3 ; G.E./G.R. Area: D4*
- ANTH 333 - Women in Cross-Cultural Perspective *Units: 3 ; G.E./G.R. Area: D4; Social Justice*
- ANTH 334 - Human Sexuality: Anthropological Perspectives *Units: 3 ; G.E./G.R. Area: D4*
- ANTH 431 - Advanced Anthropological Theory *Units: 3*

Environmental Science: Graduate

- ENSC 633 - The Science of Soils *Units: 4*

Environmental Studies

- ENVT 101 - Environmental Challenges of the 21st Century *Units: 3 ; G.E./G.R. Area: D1-3; Sustainability*
- ENVT 225 - Fundamentals of GIS *Units: 3*
- ENVT 307 - Social Impact through Sustainable Solar Design *Units: 3 ; G.E./G.R. Area: B6; Sustainability*
- ENVT 310 - Literature and Research Methods *Units: 4*
- ENVT 320 - Environmental Resource Analysis *Units: 4*
- ENVT 330 - Environment, Sustainability, and Social Justice *Units: 3 ; G.E./G.R. Area: D4; Sustainability*
- ENVT 340 - Climate Change *Units: 3 ; G.E./G.R. Area: B6; Sustainability*
- ENVT 380 - Applied Field Studies *Units: 3*
- ENVT 398 - Internship *Units: 1-3*
- ENVT 410 - Environmental Impact Analysis *Units: 3*
- ENVT 445 - Water and Watershed Resources *Units: 4 ; G.E./G.R. Area: B6*
- ENVT 447 - Energy, Climate and Society *Units: 4 ; G.E./G.R. Area: B6; Sustainability*
- ENVT 465 - Sustainable Communities and Development *Units: 4 ; G.E./G.R. Area: D4; Sustainability*
- ENVT 490 - Independent Study *Units: 1-3*
- ENVT 493 - Environmental Projects *Units: 3*
- ENVT 495 - Environmental Internship *Units: 1-3*

Geography

- GEOG 110 - Physical Geography: Earth Processes and Outcomes *Units: 3 ; G.E./G.R. Area: B1*
- GEOG 120 - Human Geography: Diversity and Globalization *Units: 3 ; G.E./G.R. Area: D1-3*
- GEOG 125 - World Regions and Development *Units: 3 ; G.E./G.R. Area: D1-3*
- GEOG 200 - Sustainable Resource Management *Units: 3 ; G.E./G.R. Area: D1-3*
- GEOG 225 - Fundamentals of GIS *Units: 3*
- GEOG 310 - Literature and Research Methods *Units: 4*
- GEOG 320 - Environmental Resource Analysis *Units: 4*
- GEOG 330 - Historical Geography of North America *Units: 3 ; G.E./G.R. Area: D4*
- GEOG 336 - Asian Americans: Multiculturalism and Spatial Disparity *Units: 3 ; G.E./G.R. Area: D4*
- GEOG 340 - Climate Change *Units: 3 ; G.E./G.R. Area: B6; Sustainability*

- GEOG 350 - California *Units: 3 ; G.E./G.R. Area: D4*
- GEOG 351 - United States and Canada *Units: 3 ; G.E./G.R. Area: D4*
- GEOG 352 - Latin America and the Caribbean *Units: 3 ; G.E./G.R. Area: D4*
- GEOG 353 - Africa *Units: 3 ; G.E./G.R. Area: D4*
- GEOG 354 - China: Economic Development and Social Transformation *Units: 3 ; G.E./G.R. Area: D4*
- GEOG 355 - Asia Pacific *Units: 3 ; G.E./G.R. Area: D4*
- GEOG 356 - Europe *Units: 3 ; G.E./G.R. Area: D4*
- GEOG 360 - Computer Cartography *Units: 3*
- GEOG 380 - Applied Field Studies *Units: 3*
- GEOG 397 - Issues in Anthropology, Geography and Environmental Studies *Units: 3*
- GEOG 398 - Internship *Units: 1-3*
- GEOG 425 - Advanced GIS *Units: 3*
- GEOG 445 - Water and Watershed Resources *Units: 4 ; G.E./G.R. Area: B6*
- GEOG 447 - Energy, Climate and Society *Units: 4 ; G.E./G.R. Area: B6; Sustainability*
- GEOG 450 - Earth Surface Processes and Landforms *Units: 3 ; G.E./G.R. Area: B6*
- GEOG 455 - Sustainable Food Systems *Units: 4 ; G.E./G.R. Area: D4; Sustainability*
- GEOG 461 - Remote Sensing of the Environment *Units: 3*
- GEOG 462 - Air Photo Interpretation *Units: 3*
- GEOG 465 - Sustainable Communities and Development *Units: 4 ; G.E./G.R. Area: D4; Sustainability*
- GEOG 490 - Independent Study *Units: 1-3*
- GEOG 497 - Issues in Geography *Units: 3*
- GEOG 499 - Senior Seminar in Geography *Units: 3*

Minor

Anthropology Minor

Minor Requirements (18 units)

General Introduction

Take the following 3 units:

- ANTH 100 - Introduction to Anthropology *Units: 3 ; G.E./G.R. Area: D1-3*

Introductory Core Course

Choose one (1) course for 3 units from the following:

- ANTH 110 - Introduction to Biological Anthropology *Units: 3 ; G.E./G.R. Area: B2*
- ANTH 120 - Introduction to Archaeology *Units: 3 ; G.E./G.R. Area: B1*
- ANTH 130 - Introduction to Cultural Anthropology *Units: 3 ; G.E./G.R. Area: D1-3*
- ANTH 140 - Introduction to Linguistic Anthropology *Units: 3 ; G.E./G.R. Area: D1-3*
- ANTH 300 - Anthropology of Global Change *Units: 3 ; G.E./G.R. Area: D4*

Upper-Division Core Courses

Choose two (2) courses for 6 units from the following:

- ANTH 310 - Evolutionary Biology of Humans *Units: 3 ; G.E./G.R. Area: B6*
- ANTH 320 - Archaeological Science *Units: 3*
- ANTH 330 - Social Anthropology *Units: 3*
- ANTH 340 - Language and Culture *Units: 3 ; G.E./G.R. Area: D4*

Upper-Division Electives

Choose two (2) elective courses for 6 units from the following:

- ANTH 311 - Human Fossil Record *Units: 3 ; G.E./G.R. Area: B6*
- ANTH 312 - Primate Behavioral Ecology *Units: 3 ; G.E./G.R. Area: D4*
- ANTH 321 - Archaeology of the Americas *Units: 3 ; G.E./G.R. Area: D4*
- ANTH 331 - Folklore *Units: 3 ; G.E./G.R. Area: D4*
- ANTH 333 - Women in Cross-Cultural Perspective *Units: 3 ; G.E./G.R. Area: D4;*
Social Justice
- ANTH 334 - Human Sexuality: Anthropological Perspectives *Units: 3 ; G.E./G.R.*
Area: D4
- ANTH 341 - Linguistic Diversity and Social Justice *Units: 3 ; G.E./G.R. Area: D4;*
Social Justice
- ANTH 342 - Language and Sexuality *Units: 3 ; G.E./G.R. Area: D4; Diversity*
- ANTH 350 - Indians of California *Units: 3 ; G.E./G.R. Area: D4*
- ANTH 354 - China *Units: 3 ; G.E./G.R. Area: D4*
- ANTH 355 - Japan *Units: 3*
- ANTH 370 - Anthropology in Action *Units: 3*
- ANTH 371 - Business Anthropology *Units: 3 ; G.E./G.R. Area: D4*
- ANTH 372 - Medical Anthropology *Units: 3 ; G.E./G.R. Area: D4; Diversity*
- ANTH 377 - Museum Studies Anthropology *Units: 3*
- ANTH 410 - Bioarchaeology Laboratory *Units: 3*
- ANTH 411 - Human Forensic Osteology *Units: 3*
- ANTH 420 - Archaeology Laboratory *Units: 3*
- ANTH 421 - Field Archaeology *Units: 3*
- ANTH 430 - Field Course in Ethnography *Units: 3*
- ANTH 431 - Advanced Anthropological Theory *Units: 3*

Department Courses Listed by Course Type

Anthropology, Geography, and Environmental Studies Courses

Department of Anthropology, Geography and Environmental Studies

Go to information for this department.

Courses

Anthropology

- ANTH 100 - Introduction to Anthropology *Units: 3 ; G.E./G.R. Area: D1-3*
- ANTH 110 - Introduction to Biological Anthropology *Units: 3 ; G.E./G.R. Area: B2*
- ANTH 120 - Introduction to Archaeology *Units: 3 ; G.E./G.R. Area: B1*
- ANTH 130 - Introduction to Cultural Anthropology *Units: 3 ; G.E./G.R. Area: D1-3*
- ANTH 140 - Introduction to Linguistic Anthropology *Units: 3 ; G.E./G.R. Area: D1-3*
- ANTH 300 - Anthropology of Global Change *Units: 3 ; G.E./G.R. Area: D4*
- ANTH 490 - Independent Study *Units: 1-4*
- ANTH 497 - Issues in Anthropology *Units: 3*

Anthropology: Applied Anthropology

- ANTH 370 - Anthropology in Action *Units: 3*
- ANTH 371 - Business Anthropology *Units: 3 ; G.E./G.R. Area: D4*
- ANTH 372 - Medical Anthropology *Units: 3 ; G.E./G.R. Area: D4; Diversity*
- ANTH 377 - Museum Studies Anthropology *Units: 3*
- ANTH 398 - Internship *Units: 1-3*

Anthropology: Archaeology

- ANTH 320 - Archaeological Science *Units: 3*
- ANTH 321 - Archaeology of the Americas *Units: 3 ; G.E./G.R. Area: D4*

Anthropology: Area Studies

- ANTH 350 - Indians of California *Units: 3 ; G.E./G.R. Area: D4*
- ANTH 354 - China *Units: 3 ; G.E./G.R. Area: D4*
- ANTH 355 - Japan *Units: 3*

Anthropology: Biological Anthropology

- ANTH 310 - Evolutionary Biology of Humans *Units: 3 ; G.E./G.R. Area: B6*
- ANTH 311 - Human Fossil Record *Units: 3 ; G.E./G.R. Area: B6*
- ANTH 312 - Primate Behavioral Ecology *Units: 3 ; G.E./G.R. Area: D4*

Anthropology: Methods

- ANTH 410 - Bioarchaeology Laboratory *Units: 3*
- ANTH 411 - Human Forensic Osteology *Units: 3*
- ANTH 420 - Archaeology Laboratory *Units: 3*
- ANTH 421 - Field Archaeology *Units: 3*
- ANTH 430 - Field Course in Ethnography *Units: 3*

Anthropology: Linguistic Anthropology

- ANTH 340 - Language and Culture *Units: 3 ; G.E./G.R. Area: D4*
- ANTH 341 - Linguistic Diversity and Social Justice *Units: 3 ; G.E./G.R. Area: D4; Social Justice*
- ANTH 342 - Language and Sexuality *Units: 3 ; G.E./G.R. Area: D4; Diversity*

Anthropology: Sociocultural Anthropology

- ANTH 330 - Social Anthropology *Units: 3*
- ANTH 331 - Folklore *Units: 3 ; G.E./G.R. Area: D4*
- ANTH 333 - Women in Cross-Cultural Perspective *Units: 3 ; G.E./G.R. Area: D4; Social Justice*
- ANTH 334 - Human Sexuality: Anthropological Perspectives *Units: 3 ; G.E./G.R. Area: D4*
- ANTH 431 - Advanced Anthropological Theory *Units: 3*

Environmental Science: Graduate

- ENSC 633 - The Science of Soils *Units: 4*

Environmental Studies

- ENVT 101 - Environmental Challenges of the 21st Century *Units: 3 ; G.E./G.R. Area: D1-3; Sustainability*

- ENVT 225 - Fundamentals of GIS *Units: 3*

- ENVT 307 - Social Impact through Sustainable Solar Design *Units: 3 ; G.E./G.R. Area: B6; Sustainability*

- ENVT 310 - Literature and Research Methods *Units: 4*

- ENVT 320 - Environmental Resource Analysis *Units: 4*

- ENVT 330 - Environment, Sustainability, and Social Justice *Units: 3 ; G.E./G.R. Area: D4; Sustainability*

- ENVT 340 - Climate Change *Units: 3 ; G.E./G.R. Area: B6; Sustainability*

- ENVT 380 - Applied Field Studies *Units: 3*

- ENVT 398 - Internship *Units: 1-3*

- ENVT 410 - Environmental Impact Analysis *Units: 3*

- ENVT 445 - Water and Watershed Resources *Units: 4 ; G.E./G.R. Area: B6*

- ENVT 447 - Energy, Climate and Society *Units: 4 ; G.E./G.R. Area: B6; Sustainability*

- ENVT 465 - Sustainable Communities and Development *Units: 4 ; G.E./G.R. Area: D4; Sustainability*

- ENVT 490 - Independent Study *Units: 1-3*

- ENVT 493 - Environmental Projects *Units: 3*

- ENVT 495 - Environmental Internship *Units: 1-3*

Geography

- GEOG 110 - Physical Geography: Earth Processes and Outcomes *Units: 3 ; G.E./G.R. Area: B1*

- GEOG 120 - Human Geography: Diversity and Globalization *Units: 3 ; G.E./G.R. Area: D1-3*

- GEOG 125 - World Regions and Development *Units: 3 ; G.E./G.R. Area: D1-3*

- GEOG 200 - Sustainable Resource Management *Units: 3 ; G.E./G.R. Area: D1-3*

- GEOG 225 - Fundamentals of GIS *Units: 3*

- GEOG 310 - Literature and Research Methods *Units: 4*

- GEOG 320 - Environmental Resource Analysis *Units: 4*

- GEOG 330 - Historical Geography of North America *Units: 3 ; G.E./G.R. Area: D4*

- GEOG 336 - Asian Americans: Multiculturalism and Spatial Disparity *Units: 3 ; G.E./G.R. Area: D4*

D4

- GEOG 340 - Climate Change *Units: 3 ; G.E./G.R. Area: B6; Sustainability*

- GEOG 350 - California *Units: 3 ; G.E./G.R. Area: D4*

- GEOG 351 - United States and Canada *Units: 3 ; G.E./G.R. Area: D4*

- GEOG 352 - Latin America and the Caribbean *Units: 3 ; G.E./G.R. Area: D4*

- GEOG 353 - Africa *Units: 3 ; G.E./G.R. Area: D4*

- GEOG 354 - China: Economic Development and Social Transformation *Units: 3 ; G.E./G.R. Area: D4*

- GEOG 355 - Asia Pacific *Units: 3 ; G.E./G.R. Area: D4*

- GEOG 356 - Europe *Units: 3 ; G.E./G.R. Area: D4*

- GEOG 360 - Computer Cartography *Units: 3*

- GEOG 380 - Applied Field Studies *Units: 3*

- GEOG 397 - Issues in Anthropology, Geography and Environmental Studies *Units: 3*

- GEOG 398 - Internship *Units: 1-3*

- GEOG 425 - Advanced GIS *Units: 3*

- GEOG 445 - Water and Watershed Resources *Units: 4 ; G.E./G.R. Area: B6*

- GEOG 447 - Energy, Climate and Society *Units: 4 ; G.E./G.R. Area: B6; Sustainability*

- GEOG 450 - Earth Surface Processes and Landforms *Units: 3 ; G.E./G.R. Area: B6*

- GEOG 455 - Sustainable Food Systems *Units: 4 ; G.E./G.R. Area: D4; Sustainability*

- GEOG 461 - Remote Sensing of the Environment *Units: 3*

- GEOG 462 - Air Photo Interpretation *Units: 3*

- GEOG 465 - Sustainable Communities and Development *Units: 4 ; G.E./G.R. Area: D4; Sustainability*
- GEOG 490 - Independent Study *Units: 1-3*
- GEOG 497 - Issues in Geography *Units: 3*
- GEOG 499 - Senior Seminar in Geography *Units: 3*

Environmental Studies Minor

Minor Requirements (22 units)

The Minor in Environmental Studies focuses on issues at the intersection of sustainability and social justice. All of the following courses are required unless modified with the approval of the Director of Environmental Studies.

Required Courses

Take the following 22 units:

- ENVT 101 - Environmental Challenges of the 21st Century *Units: 3 ; G.E./G.R. Area: D1-3; Sustainability*
- ENVT 330 - Environment, Sustainability, and Social Justice *Units: 3 ; G.E./G.R. Area: D4; Sustainability*
- ENVT 445 - Water and Watershed Resources *Units: 4 ; G.E./G.R. Area: B6*
- ENVT 447 - Energy, Climate and Society *Units: 4 ; G.E./G.R. Area: B6; Sustainability*
- ENVT 465 - Sustainable Communities and Development *Units: 4 ; G.E./G.R. Area: D4; Sustainability*
- GEOG 455 - Sustainable Food Systems *Units: 4 ; G.E./G.R. Area: D4; Sustainability*

Department Courses Listed by Course Type

Anthropology, Geography, and Environmental Studies Courses

Department of Anthropology, Geography and Environmental Studies

Go to information for this department.

Courses

Anthropology

- ANTH 100 - Introduction to Anthropology *Units: 3 ; G.E./G.R. Area: D1-3*
- ANTH 110 - Introduction to Biological Anthropology *Units: 3 ; G.E./G.R. Area: B2*
- ANTH 120 - Introduction to Archaeology *Units: 3 ; G.E./G.R. Area: B1*
- ANTH 130 - Introduction to Cultural Anthropology *Units: 3 ; G.E./G.R. Area: D1-3*
- ANTH 140 - Introduction to Linguistic Anthropology *Units: 3 ; G.E./G.R. Area: D1-3*
- ANTH 300 - Anthropology of Global Change *Units: 3 ; G.E./G.R. Area: D4*
- ANTH 490 - Independent Study *Units: 1-4*
- ANTH 497 - Issues in Anthropology *Units: 3*

Anthropology: Applied Anthropology

- ANTH 370 - Anthropology in Action *Units: 3*
- ANTH 371 - Business Anthropology *Units: 3 ; G.E./G.R. Area: D4*
- ANTH 372 - Medical Anthropology *Units: 3 ; G.E./G.R. Area: D4; Diversity*
- ANTH 377 - Museum Studies Anthropology *Units: 3*
- ANTH 398 - Internship *Units: 1-3*

Anthropology: Archaeology

- ANTH 320 - Archaeological Science *Units: 3*
- ANTH 321 - Archaeology of the Americas *Units: 3 ; G.E./G.R. Area: D4*

Anthropology: Area Studies

- ANTH 350 - Indians of California *Units: 3 ; G.E./G.R. Area: D4*
- ANTH 354 - China *Units: 3 ; G.E./G.R. Area: D4*
- ANTH 355 - Japan *Units: 3*

Anthropology: Biological Anthropology

- ANTH 310 - Evolutionary Biology of Humans *Units: 3 ; G.E./G.R. Area: B6*
- ANTH 311 - Human Fossil Record *Units: 3 ; G.E./G.R. Area: B6*
- ANTH 312 - Primate Behavioral Ecology *Units: 3 ; G.E./G.R. Area: D4*

Anthropology: Methods

- ANTH 410 - Bioarchaeology Laboratory *Units: 3*
- ANTH 411 - Human Forensic Osteology *Units: 3*
- ANTH 420 - Archaeology Laboratory *Units: 3*
- ANTH 421 - Field Archaeology *Units: 3*
- ANTH 430 - Field Course in Ethnography *Units: 3*

Anthropology: Linguistic Anthropology

- ANTH 340 - Language and Culture *Units: 3 ; G.E./G.R. Area: D4*
- ANTH 341 - Linguistic Diversity and Social Justice *Units: 3 ; G.E./G.R. Area: D4; Social Justice*
- ANTH 342 - Language and Sexuality *Units: 3 ; G.E./G.R. Area: D4; Diversity*

Anthropology: Sociocultural Anthropology

- ANTH 330 - Social Anthropology *Units: 3*
- ANTH 331 - Folklore *Units: 3 ; G.E./G.R. Area: D4*
- ANTH 333 - Women in Cross-Cultural Perspective *Units: 3 ; G.E./G.R. Area: D4; Social Justice*
- ANTH 334 - Human Sexuality: Anthropological Perspectives *Units: 3 ; G.E./G.R. Area: D4*
- ANTH 431 - Advanced Anthropological Theory *Units: 3*

Environmental Science: Graduate

- ENSC 633 - The Science of Soils *Units: 4*

Environmental Studies

- ENVT 101 - Environmental Challenges of the 21st Century *Units: 3 ; G.E./G.R. Area: D1-3; Sustainability*
- ENVT 225 - Fundamentals of GIS *Units: 3*
- ENVT 307 - Social Impact through Sustainable Solar Design *Units: 3 ; G.E./G.R. Area: B6; Sustainability*
- ENVT 310 - Literature and Research Methods *Units: 4*
- ENVT 320 - Environmental Resource Analysis *Units: 4*
- ENVT 330 - Environment, Sustainability, and Social Justice *Units: 3 ; G.E./G.R. Area: D4; Sustainability*

- ENVT 340 - Climate Change *Units: 3 ; G.E./G.R. Area: B6; Sustainability*
- ENVT 380 - Applied Field Studies *Units: 3*
- ENVT 398 - Internship *Units: 1-3*
- ENVT 410 - Environmental Impact Analysis *Units: 3*
- ENVT 445 - Water and Watershed Resources *Units: 4 ; G.E./G.R. Area: B6*
- ENVT 447 - Energy, Climate and Society *Units: 4 ; G.E./G.R. Area: B6; Sustainability*
- ENVT 465 - Sustainable Communities and Development *Units: 4 ; G.E./G.R. Area: D4;*

Sustainability

- ENVT 490 - Independent Study *Units: 1-3*
- ENVT 493 - Environmental Projects *Units: 3*
- ENVT 495 - Environmental Internship *Units: 1-3*

Geography

- GEOG 110 - Physical Geography: Earth Processes and Outcomes *Units: 3 ; G.E./G.R. Area: B1*
- GEOG 120 - Human Geography: Diversity and Globalization *Units: 3 ; G.E./G.R. Area: D1-3*
- GEOG 125 - World Regions and Development *Units: 3 ; G.E./G.R. Area: D1-3*
- GEOG 200 - Sustainable Resource Management *Units: 3 ; G.E./G.R. Area: D1-3*
- GEOG 225 - Fundamentals of GIS *Units: 3*
- GEOG 310 - Literature and Research Methods *Units: 4*
- GEOG 320 - Environmental Resource Analysis *Units: 4*
- GEOG 330 - Historical Geography of North America *Units: 3 ; G.E./G.R. Area: D4*
- GEOG 336 - Asian Americans: Multiculturalism and Spatial Disparity *Units: 3 ; G.E./G.R. Area:*

D4

- GEOG 340 - Climate Change *Units: 3 ; G.E./G.R. Area: B6; Sustainability*
- GEOG 350 - California *Units: 3 ; G.E./G.R. Area: D4*
- GEOG 351 - United States and Canada *Units: 3 ; G.E./G.R. Area: D4*
- GEOG 352 - Latin America and the Caribbean *Units: 3 ; G.E./G.R. Area: D4*
- GEOG 353 - Africa *Units: 3 ; G.E./G.R. Area: D4*
- GEOG 354 - China: Economic Development and Social Transformation *Units: 3 ; G.E./G.R.*

Area: D4

- GEOG 355 - Asia Pacific *Units: 3 ; G.E./G.R. Area: D4*
- GEOG 356 - Europe *Units: 3 ; G.E./G.R. Area: D4*
- GEOG 360 - Computer Cartography *Units: 3*
- GEOG 380 - Applied Field Studies *Units: 3*
- GEOG 397 - Issues in Anthropology, Geography and Environmental Studies *Units: 3*
- GEOG 398 - Internship *Units: 1-3*
- GEOG 425 - Advanced GIS *Units: 3*
- GEOG 445 - Water and Watershed Resources *Units: 4 ; G.E./G.R. Area: B6*
- GEOG 447 - Energy, Climate and Society *Units: 4 ; G.E./G.R. Area: B6; Sustainability*
- GEOG 450 - Earth Surface Processes and Landforms *Units: 3 ; G.E./G.R. Area: B6*
- GEOG 455 - Sustainable Food Systems *Units: 4 ; G.E./G.R. Area: D4; Sustainability*
- GEOG 461 - Remote Sensing of the Environment *Units: 3*
- GEOG 462 - Air Photo Interpretation *Units: 3*
- GEOG 465 - Sustainable Communities and Development *Units: 4 ; G.E./G.R. Area: D4;*

Sustainability

- GEOG 490 - Independent Study *Units: 1-3*
- GEOG 497 - Issues in Geography *Units: 3*
- GEOG 499 - Senior Seminar in Geography *Units: 3*

Geography Minor

Minor Requirements (21-23 units)

Required Courses

Take the following 9 units:

- **GEOG 110 - Physical Geography: Earth Processes and Outcomes** *Units: 3 ; G.E./G.R. Area: B1*
- **GEOG 120 - Human Geography: Diversity and Globalization** *Units: 3 ; G.E./G.R. Area: D1-3*
- **GEOG 125 - World Regions and Development** *Units: 3 ; G.E./G.R. Area: D1-3*

Elective Courses

Choose two (2) courses for 6 units from the following:

- **GEOG 350 - California** *Units: 3 ; G.E./G.R. Area: D4*
- **GEOG 351 - United States and Canada** *Units: 3 ; G.E./G.R. Area: D4*
- **GEOG 352 - Latin America and the Caribbean** *Units: 3 ; G.E./G.R. Area: D4*
- **GEOG 353 - Africa** *Units: 3 ; G.E./G.R. Area: D4*
- **GEOG 354 - China: Economic Development and Social Transformation** *Units: 3 ; G.E./G.R. Area: D4*
- **GEOG 355 - Asia Pacific** *Units: 3 ; G.E./G.R. Area: D4*
- **GEOG 356 - Europe** *Units: 3 ; G.E./G.R. Area: D4*

Choose a minimum of two (2) courses for 6-8 units from the following:

- **GEOG 330 - Historical Geography of North America** *Units: 3 ; G.E./G.R. Area: D4*
- **GEOG 336 - Asian Americans: Multiculturalism and Spatial Disparity** *Units: 3 ; G.E./G.R. Area: D4*
- **GEOG 340 - Climate Change** *Units: 3 ; G.E./G.R. Area: B6; Sustainability*
- **GEOG 445 - Water and Watershed Resources** *Units: 4 ; G.E./G.R. Area: B6*
- **GEOG 447 - Energy, Climate and Society** *Units: 4 ; G.E./G.R. Area: B6; Sustainability*
- **GEOG 450 - Earth Surface Processes and Landforms** *Units: 3 ; G.E./G.R. Area: B6*
- **GEOG 455 - Sustainable Food Systems** *Units: 4 ; G.E./G.R. Area: D4; Sustainability*
- **GEOG 465 - Sustainable Communities and Development** *Units: 4 ; G.E./G.R. Area: D4; Sustainability*

Department Courses Listed by Course Type

Anthropology, Geography, and Environmental Studies Courses

Department of Anthropology, Geography and Environmental Studies

Go to information for this department.

Courses

Anthropology

- ANTH 100 - Introduction to Anthropology *Units: 3 ; G.E./G.R. Area: D1-3*
- ANTH 110 - Introduction to Biological Anthropology *Units: 3 ; G.E./G.R. Area: B2*
- ANTH 120 - Introduction to Archaeology *Units: 3 ; G.E./G.R. Area: B1*
- ANTH 130 - Introduction to Cultural Anthropology *Units: 3 ; G.E./G.R. Area: D1-3*
- ANTH 140 - Introduction to Linguistic Anthropology *Units: 3 ; G.E./G.R. Area: D1-3*
- ANTH 300 - Anthropology of Global Change *Units: 3 ; G.E./G.R. Area: D4*
- ANTH 490 - Independent Study *Units: 1-4*
- ANTH 497 - Issues in Anthropology *Units: 3*

Anthropology: Applied Anthropology

- ANTH 370 - Anthropology in Action *Units: 3*
- ANTH 371 - Business Anthropology *Units: 3 ; G.E./G.R. Area: D4*
- ANTH 372 - Medical Anthropology *Units: 3 ; G.E./G.R. Area: D4; Diversity*
- ANTH 377 - Museum Studies Anthropology *Units: 3*
- ANTH 398 - Internship *Units: 1-3*

Anthropology: Archaeology

- ANTH 320 - Archaeological Science *Units: 3*
- ANTH 321 - Archaeology of the Americas *Units: 3 ; G.E./G.R. Area: D4*

Anthropology: Area Studies

- ANTH 350 - Indians of California *Units: 3 ; G.E./G.R. Area: D4*
- ANTH 354 - China *Units: 3 ; G.E./G.R. Area: D4*
- ANTH 355 - Japan *Units: 3*

Anthropology: Biological Anthropology

- ANTH 310 - Evolutionary Biology of Humans *Units: 3 ; G.E./G.R. Area: B6*
- ANTH 311 - Human Fossil Record *Units: 3 ; G.E./G.R. Area: B6*
- ANTH 312 - Primate Behavioral Ecology *Units: 3 ; G.E./G.R. Area: D4*

Anthropology: Methods

- ANTH 410 - Bioarchaeology Laboratory *Units: 3*
- ANTH 411 - Human Forensic Osteology *Units: 3*
- ANTH 420 - Archaeology Laboratory *Units: 3*
- ANTH 421 - Field Archaeology *Units: 3*
- ANTH 430 - Field Course in Ethnography *Units: 3*

Anthropology: Linguistic Anthropology

- ANTH 340 - Language and Culture *Units: 3 ; G.E./G.R. Area: D4*
- ANTH 341 - Linguistic Diversity and Social Justice *Units: 3 ; G.E./G.R. Area: D4; Social Justice*
- ANTH 342 - Language and Sexuality *Units: 3 ; G.E./G.R. Area: D4; Diversity*

Anthropology: Sociocultural Anthropology

- ANTH 330 - Social Anthropology *Units: 3*
- ANTH 331 - Folklore *Units: 3 ; G.E./G.R. Area: D4*
- ANTH 333 - Women in Cross-Cultural Perspective *Units: 3 ; G.E./G.R. Area: D4; Social Justice*
- ANTH 334 - Human Sexuality: Anthropological Perspectives *Units: 3 ; G.E./G.R. Area: D4*
- ANTH 431 - Advanced Anthropological Theory *Units: 3*

Environmental Science: Graduate

- ENSC 633 - The Science of Soils *Units: 4*

Environmental Studies

- ENVT 101 - Environmental Challenges of the 21st Century *Units: 3 ; G.E./G.R. Area: D1-3; Sustainability*

- ENVT 225 - Fundamentals of GIS *Units: 3*

- ENVT 307 - Social Impact through Sustainable Solar Design *Units: 3 ; G.E./G.R. Area: B6; Sustainability*

- ENVT 310 - Literature and Research Methods *Units: 4*

- ENVT 320 - Environmental Resource Analysis *Units: 4*

- ENVT 330 - Environment, Sustainability, and Social Justice *Units: 3 ; G.E./G.R. Area: D4; Sustainability*

- ENVT 340 - Climate Change *Units: 3 ; G.E./G.R. Area: B6; Sustainability*

- ENVT 380 - Applied Field Studies *Units: 3*

- ENVT 398 - Internship *Units: 1-3*

- ENVT 410 - Environmental Impact Analysis *Units: 3*

- ENVT 445 - Water and Watershed Resources *Units: 4 ; G.E./G.R. Area: B6*

- ENVT 447 - Energy, Climate and Society *Units: 4 ; G.E./G.R. Area: B6; Sustainability*

- ENVT 465 - Sustainable Communities and Development *Units: 4 ; G.E./G.R. Area: D4; Sustainability*

- ENVT 490 - Independent Study *Units: 1-3*

- ENVT 493 - Environmental Projects *Units: 3*

- ENVT 495 - Environmental Internship *Units: 1-3*

Geography

- GEOG 110 - Physical Geography: Earth Processes and Outcomes *Units: 3 ; G.E./G.R. Area: B1*

- GEOG 120 - Human Geography: Diversity and Globalization *Units: 3 ; G.E./G.R. Area: D1-3*

- GEOG 125 - World Regions and Development *Units: 3 ; G.E./G.R. Area: D1-3*

- GEOG 200 - Sustainable Resource Management *Units: 3 ; G.E./G.R. Area: D1-3*

- GEOG 225 - Fundamentals of GIS *Units: 3*

- GEOG 310 - Literature and Research Methods *Units: 4*

- GEOG 320 - Environmental Resource Analysis *Units: 4*

- GEOG 330 - Historical Geography of North America *Units: 3 ; G.E./G.R. Area: D4*

- GEOG 336 - Asian Americans: Multiculturalism and Spatial Disparity *Units: 3 ; G.E./G.R. Area: D4*

D4

- GEOG 340 - Climate Change *Units: 3 ; G.E./G.R. Area: B6; Sustainability*

- GEOG 350 - California *Units: 3 ; G.E./G.R. Area: D4*

- GEOG 351 - United States and Canada *Units: 3 ; G.E./G.R. Area: D4*

- GEOG 352 - Latin America and the Caribbean *Units: 3 ; G.E./G.R. Area: D4*

- GEOG 353 - Africa *Units: 3 ; G.E./G.R. Area: D4*

- GEOG 354 - China: Economic Development and Social Transformation *Units: 3 ; G.E./G.R. Area: D4*

- GEOG 355 - Asia Pacific *Units: 3 ; G.E./G.R. Area: D4*

- GEOG 356 - Europe *Units: 3 ; G.E./G.R. Area: D4*

- GEOG 360 - Computer Cartography *Units: 3*

- GEOG 380 - Applied Field Studies *Units: 3*

- GEOG 397 - Issues in Anthropology, Geography and Environmental Studies *Units: 3*

- GEOG 398 - Internship *Units: 1-3*

- GEOG 425 - Advanced GIS *Units: 3*

- GEOG 445 - Water and Watershed Resources *Units: 4 ; G.E./G.R. Area: B6*

- GEOG 447 - Energy, Climate and Society *Units: 4 ; G.E./G.R. Area: B6; Sustainability*

- GEOG 450 - Earth Surface Processes and Landforms *Units: 3 ; G.E./G.R. Area: B6*

- GEOG 455 - Sustainable Food Systems *Units: 4 ; G.E./G.R. Area: D4; Sustainability*

- GEOG 461 - Remote Sensing of the Environment *Units: 3*

- GEOG 462 - Air Photo Interpretation *Units: 3*

- GEOG 465 - Sustainable Communities and Development *Units: 4 ; G.E./G.R. Area: D4; Sustainability*
- GEOG 490 - Independent Study *Units: 1-3*
- GEOG 497 - Issues in Geography *Units: 3*
- GEOG 499 - Senior Seminar in Geography *Units: 3*

Certificate

Cartography and GIS Certificate

The Cartography and GIS Certificate Program consists of 15 units. It is designed to prepare students in methods of data collection, interpretation, and analysis as well as the design, compilation, production, and reproduction of physical and digital maps, thus enabling students to be current in the field of cartography, global positioning and remote sensing, and geographical information systems.

Certificate Requirements (15 units)

Take all of the following:

- GEOG 225 - Fundamentals of GIS *Units: 3*
- GEOG 360 - Computer Cartography *Units: 3*
- GEOG 425 - Advanced GIS *Units: 3*
- GEOG 461 - Remote Sensing of the Environment *Units: 3*
- GEOG 462 - Air Photo Interpretation *Units: 3*

Department Courses Listed by Course Type

Anthropology, Geography, and Environmental Studies Courses

Department of Anthropology, Geography and Environmental Studies

Go to information for this department.

Courses

Anthropology

- ANTH 100 - Introduction to Anthropology *Units: 3 ; G.E./G.R. Area: D1-3*
- ANTH 110 - Introduction to Biological Anthropology *Units: 3 ; G.E./G.R. Area: B2*
- ANTH 120 - Introduction to Archaeology *Units: 3 ; G.E./G.R. Area: B1*
- ANTH 130 - Introduction to Cultural Anthropology *Units: 3 ; G.E./G.R. Area: D1-3*
- ANTH 140 - Introduction to Linguistic Anthropology *Units: 3 ; G.E./G.R. Area: D1-3*
- ANTH 300 - Anthropology of Global Change *Units: 3 ; G.E./G.R. Area: D4*
- ANTH 490 - Independent Study *Units: 1-4*
- ANTH 497 - Issues in Anthropology *Units: 3*

Anthropology: Applied Anthropology

- ANTH 370 - Anthropology in Action *Units: 3*

- ANTH 371 - Business Anthropology *Units: 3 ; G.E./G.R. Area: D4*
- ANTH 372 - Medical Anthropology *Units: 3 ; G.E./G.R. Area: D4; Diversity*
- ANTH 377 - Museum Studies Anthropology *Units: 3*
- ANTH 398 - Internship *Units: 1-3*

Anthropology: Archaeology

- ANTH 320 - Archaeological Science *Units: 3*
- ANTH 321 - Archaeology of the Americas *Units: 3 ; G.E./G.R. Area: D4*

Anthropology: Area Studies

- ANTH 350 - Indians of California *Units: 3 ; G.E./G.R. Area: D4*
- ANTH 354 - China *Units: 3 ; G.E./G.R. Area: D4*
- ANTH 355 - Japan *Units: 3*

Anthropology: Biological Anthropology

- ANTH 310 - Evolutionary Biology of Humans *Units: 3 ; G.E./G.R. Area: B6*
- ANTH 311 - Human Fossil Record *Units: 3 ; G.E./G.R. Area: B6*
- ANTH 312 - Primate Behavioral Ecology *Units: 3 ; G.E./G.R. Area: D4*

Anthropology: Methods

- ANTH 410 - Bioarchaeology Laboratory *Units: 3*
- ANTH 411 - Human Forensic Osteology *Units: 3*
- ANTH 420 - Archaeology Laboratory *Units: 3*
- ANTH 421 - Field Archaeology *Units: 3*
- ANTH 430 - Field Course in Ethnography *Units: 3*

Anthropology: Linguistic Anthropology

- ANTH 340 - Language and Culture *Units: 3 ; G.E./G.R. Area: D4*
- ANTH 341 - Linguistic Diversity and Social Justice *Units: 3 ; G.E./G.R. Area: D4; Social Justice*
- ANTH 342 - Language and Sexuality *Units: 3 ; G.E./G.R. Area: D4; Diversity*

Anthropology: Sociocultural Anthropology

- ANTH 330 - Social Anthropology *Units: 3*
- ANTH 331 - Folklore *Units: 3 ; G.E./G.R. Area: D4*
- ANTH 333 - Women in Cross-Cultural Perspective *Units: 3 ; G.E./G.R. Area: D4; Social Justice*
- ANTH 334 - Human Sexuality: Anthropological Perspectives *Units: 3 ; G.E./G.R. Area: D4*
- ANTH 431 - Advanced Anthropological Theory *Units: 3*

Environmental Science: Graduate

- ENSC 633 - The Science of Soils *Units: 4*

Environmental Studies

- ENVT 101 - Environmental Challenges of the 21st Century *Units: 3 ; G.E./G.R. Area: D1-3; Sustainability*
- ENVT 225 - Fundamentals of GIS *Units: 3*
- ENVT 307 - Social Impact through Sustainable Solar Design *Units: 3 ; G.E./G.R. Area: B6; Sustainability*
- ENVT 310 - Literature and Research Methods *Units: 4*
- ENVT 320 - Environmental Resource Analysis *Units: 4*
- ENVT 330 - Environment, Sustainability, and Social Justice *Units: 3 ; G.E./G.R. Area: D4; Sustainability*
- ENVT 340 - Climate Change *Units: 3 ; G.E./G.R. Area: B6; Sustainability*
- ENVT 380 - Applied Field Studies *Units: 3*

- ENVT 398 - Internship *Units: 1-3*
- ENVT 410 - Environmental Impact Analysis *Units: 3*
- ENVT 445 - Water and Watershed Resources *Units: 4 ; G.E./G.R. Area: B6*
- ENVT 447 - Energy, Climate and Society *Units: 4 ; G.E./G.R. Area: B6; Sustainability*
- ENVT 465 - Sustainable Communities and Development *Units: 4 ; G.E./G.R. Area: D4;*

Sustainability

- ENVT 490 - Independent Study *Units: 1-3*
- ENVT 493 - Environmental Projects *Units: 3*
- ENVT 495 - Environmental Internship *Units: 1-3*

Geography

- GEOG 110 - Physical Geography: Earth Processes and Outcomes *Units: 3 ; G.E./G.R. Area: B1*
- GEOG 120 - Human Geography: Diversity and Globalization *Units: 3 ; G.E./G.R. Area: D1-3*
- GEOG 125 - World Regions and Development *Units: 3 ; G.E./G.R. Area: D1-3*
- GEOG 200 - Sustainable Resource Management *Units: 3 ; G.E./G.R. Area: D1-3*
- GEOG 225 - Fundamentals of GIS *Units: 3*
- GEOG 310 - Literature and Research Methods *Units: 4*
- GEOG 320 - Environmental Resource Analysis *Units: 4*
- GEOG 330 - Historical Geography of North America *Units: 3 ; G.E./G.R. Area: D4*
- GEOG 336 - Asian Americans: Multiculturalism and Spatial Disparity *Units: 3 ; G.E./G.R. Area:*

D4

- GEOG 340 - Climate Change *Units: 3 ; G.E./G.R. Area: B6; Sustainability*
- GEOG 350 - California *Units: 3 ; G.E./G.R. Area: D4*
- GEOG 351 - United States and Canada *Units: 3 ; G.E./G.R. Area: D4*
- GEOG 352 - Latin America and the Caribbean *Units: 3 ; G.E./G.R. Area: D4*
- GEOG 353 - Africa *Units: 3 ; G.E./G.R. Area: D4*
- GEOG 354 - China: Economic Development and Social Transformation *Units: 3 ; G.E./G.R.*

Area: D4

- GEOG 355 - Asia Pacific *Units: 3 ; G.E./G.R. Area: D4*
- GEOG 356 - Europe *Units: 3 ; G.E./G.R. Area: D4*
- GEOG 360 - Computer Cartography *Units: 3*
- GEOG 380 - Applied Field Studies *Units: 3*
- GEOG 397 - Issues in Anthropology, Geography and Environmental Studies *Units: 3*
- GEOG 398 - Internship *Units: 1-3*
- GEOG 425 - Advanced GIS *Units: 3*
- GEOG 445 - Water and Watershed Resources *Units: 4 ; G.E./G.R. Area: B6*
- GEOG 447 - Energy, Climate and Society *Units: 4 ; G.E./G.R. Area: B6; Sustainability*
- GEOG 450 - Earth Surface Processes and Landforms *Units: 3 ; G.E./G.R. Area: B6*
- GEOG 455 - Sustainable Food Systems *Units: 4 ; G.E./G.R. Area: D4; Sustainability*
- GEOG 461 - Remote Sensing of the Environment *Units: 3*
- GEOG 462 - Air Photo Interpretation *Units: 3*
- GEOG 465 - Sustainable Communities and Development *Units: 4 ; G.E./G.R. Area: D4;*

Sustainability

- GEOG 490 - Independent Study *Units: 1-3*
- GEOG 497 - Issues in Geography *Units: 3*
- GEOG 499 - Senior Seminar in Geography *Units: 3*

Sustainability Certificate

Program Description

The Certificate in Sustainability provides basic preparation for entry level, public or private sector employment as a sustainability or environmental services professional. Complimentary undergraduate degrees include environmental studies, environmental science, geography, engineering, urban planning, public administration, and political science.

Admission Requirements

Completion of CHEM 100, STAT 100, ENVT 101 or equivalent.

Required Coursework (22-23 units)

Take the following 19 units:

- ENVT 320 - Environmental Resource Analysis *Units: 4*
- ENVT 445 - Water and Watershed Resources *Units: 4 ; G.E./G.R. Area: B6*
- ENVT 447 - Energy, Climate and Society *Units: 4 ; G.E./G.R. Area: B6; Sustainability*
- ENVT 465 - Sustainable Communities and Development *Units: 4 ; G.E./G.R. Area: D4; Sustainability*
- ENVT 493 - Environmental Projects *Units: 3*

Take one (1) of the following courses for 3-4 units:

- ENVT 330 - Environment, Sustainability, and Social Justice *Units: 3 ; G.E./G.R. Area: D4; Sustainability*
- GEOG 455 - Sustainable Food Systems *Units: 4 ; G.E./G.R. Area: D4; Sustainability*

Department Courses Listed by Course Type

Anthropology, Geography, and Environmental Studies Courses

Department of Anthropology, Geography and Environmental Studies

Go to information for this department.

Courses

Anthropology

- ANTH 100 - Introduction to Anthropology *Units: 3 ; G.E./G.R. Area: D1-3*
- ANTH 110 - Introduction to Biological Anthropology *Units: 3 ; G.E./G.R. Area: B2*
- ANTH 120 - Introduction to Archaeology *Units: 3 ; G.E./G.R. Area: B1*
- ANTH 130 - Introduction to Cultural Anthropology *Units: 3 ; G.E./G.R. Area: D1-3*
- ANTH 140 - Introduction to Linguistic Anthropology *Units: 3 ; G.E./G.R. Area: D1-3*
- ANTH 300 - Anthropology of Global Change *Units: 3 ; G.E./G.R. Area: D4*
- ANTH 490 - Independent Study *Units: 1-4*
- ANTH 497 - Issues in Anthropology *Units: 3*

Anthropology: Applied Anthropology

- ANTH 370 - Anthropology in Action *Units: 3*
- ANTH 371 - Business Anthropology *Units: 3 ; G.E./G.R. Area: D4*

- ANTH 372 - Medical Anthropology *Units: 3 ; G.E./G.R. Area: D4; Diversity*
- ANTH 377 - Museum Studies Anthropology *Units: 3*
- ANTH 398 - Internship *Units: 1-3*

Anthropology: Archaeology

- ANTH 320 - Archaeological Science *Units: 3*
- ANTH 321 - Archaeology of the Americas *Units: 3 ; G.E./G.R. Area: D4*

Anthropology: Area Studies

- ANTH 350 - Indians of California *Units: 3 ; G.E./G.R. Area: D4*
- ANTH 354 - China *Units: 3 ; G.E./G.R. Area: D4*
- ANTH 355 - Japan *Units: 3*

Anthropology: Biological Anthropology

- ANTH 310 - Evolutionary Biology of Humans *Units: 3 ; G.E./G.R. Area: B6*
- ANTH 311 - Human Fossil Record *Units: 3 ; G.E./G.R. Area: B6*
- ANTH 312 - Primate Behavioral Ecology *Units: 3 ; G.E./G.R. Area: D4*

Anthropology: Methods

- ANTH 410 - Bioarchaeology Laboratory *Units: 3*
- ANTH 411 - Human Forensic Osteology *Units: 3*
- ANTH 420 - Archaeology Laboratory *Units: 3*
- ANTH 421 - Field Archaeology *Units: 3*
- ANTH 430 - Field Course in Ethnography *Units: 3*

Anthropology: Linguistic Anthropology

- ANTH 340 - Language and Culture *Units: 3 ; G.E./G.R. Area: D4*
- ANTH 341 - Linguistic Diversity and Social Justice *Units: 3 ; G.E./G.R. Area: D4; Social Justice*
- ANTH 342 - Language and Sexuality *Units: 3 ; G.E./G.R. Area: D4; Diversity*

Anthropology: Sociocultural Anthropology

- ANTH 330 - Social Anthropology *Units: 3*
- ANTH 331 - Folklore *Units: 3 ; G.E./G.R. Area: D4*
- ANTH 333 - Women in Cross-Cultural Perspective *Units: 3 ; G.E./G.R. Area: D4; Social Justice*
- ANTH 334 - Human Sexuality: Anthropological Perspectives *Units: 3 ; G.E./G.R. Area: D4*
- ANTH 431 - Advanced Anthropological Theory *Units: 3*

Environmental Science: Graduate

- ENSC 633 - The Science of Soils *Units: 4*

Environmental Studies

- ENVT 101 - Environmental Challenges of the 21st Century *Units: 3 ; G.E./G.R. Area: D1-3; Sustainability*
- ENVT 225 - Fundamentals of GIS *Units: 3*
- ENVT 307 - Social Impact through Sustainable Solar Design *Units: 3 ; G.E./G.R. Area: B6; Sustainability*
- ENVT 310 - Literature and Research Methods *Units: 4*
- ENVT 320 - Environmental Resource Analysis *Units: 4*
- ENVT 330 - Environment, Sustainability, and Social Justice *Units: 3 ; G.E./G.R. Area: D4; Sustainability*
- ENVT 340 - Climate Change *Units: 3 ; G.E./G.R. Area: B6; Sustainability*
- ENVT 380 - Applied Field Studies *Units: 3*
- ENVT 398 - Internship *Units: 1-3*

- ENVT 410 - Environmental Impact Analysis *Units: 3*
- ENVT 445 - Water and Watershed Resources *Units: 4 ; G.E./G.R. Area: B6*
- ENVT 447 - Energy, Climate and Society *Units: 4 ; G.E./G.R. Area: B6; Sustainability*
- ENVT 465 - Sustainable Communities and Development *Units: 4 ; G.E./G.R. Area: D4;*

Sustainability

- ENVT 490 - Independent Study *Units: 1-3*
- ENVT 493 - Environmental Projects *Units: 3*
- ENVT 495 - Environmental Internship *Units: 1-3*

Geography

- GEOG 110 - Physical Geography: Earth Processes and Outcomes *Units: 3 ; G.E./G.R. Area: B1*
- GEOG 120 - Human Geography: Diversity and Globalization *Units: 3 ; G.E./G.R. Area: D1-3*
- GEOG 125 - World Regions and Development *Units: 3 ; G.E./G.R. Area: D1-3*
- GEOG 200 - Sustainable Resource Management *Units: 3 ; G.E./G.R. Area: D1-3*
- GEOG 225 - Fundamentals of GIS *Units: 3*
- GEOG 310 - Literature and Research Methods *Units: 4*
- GEOG 320 - Environmental Resource Analysis *Units: 4*
- GEOG 330 - Historical Geography of North America *Units: 3 ; G.E./G.R. Area: D4*
- GEOG 336 - Asian Americans: Multiculturalism and Spatial Disparity *Units: 3 ; G.E./G.R. Area:*

D4

- GEOG 340 - Climate Change *Units: 3 ; G.E./G.R. Area: B6; Sustainability*
- GEOG 350 - California *Units: 3 ; G.E./G.R. Area: D4*
- GEOG 351 - United States and Canada *Units: 3 ; G.E./G.R. Area: D4*
- GEOG 352 - Latin America and the Caribbean *Units: 3 ; G.E./G.R. Area: D4*
- GEOG 353 - Africa *Units: 3 ; G.E./G.R. Area: D4*
- GEOG 354 - China: Economic Development and Social Transformation *Units: 3 ; G.E./G.R.*

Area: D4

- GEOG 355 - Asia Pacific *Units: 3 ; G.E./G.R. Area: D4*
- GEOG 356 - Europe *Units: 3 ; G.E./G.R. Area: D4*
- GEOG 360 - Computer Cartography *Units: 3*
- GEOG 380 - Applied Field Studies *Units: 3*
- GEOG 397 - Issues in Anthropology, Geography and Environmental Studies *Units: 3*
- GEOG 398 - Internship *Units: 1-3*
- GEOG 425 - Advanced GIS *Units: 3*
- GEOG 445 - Water and Watershed Resources *Units: 4 ; G.E./G.R. Area: B6*
- GEOG 447 - Energy, Climate and Society *Units: 4 ; G.E./G.R. Area: B6; Sustainability*
- GEOG 450 - Earth Surface Processes and Landforms *Units: 3 ; G.E./G.R. Area: B6*
- GEOG 455 - Sustainable Food Systems *Units: 4 ; G.E./G.R. Area: D4; Sustainability*
- GEOG 461 - Remote Sensing of the Environment *Units: 3*
- GEOG 462 - Air Photo Interpretation *Units: 3*
- GEOG 465 - Sustainable Communities and Development *Units: 4 ; G.E./G.R. Area: D4;*

Sustainability

- GEOG 490 - Independent Study *Units: 1-3*
- GEOG 497 - Issues in Geography *Units: 3*
- GEOG 499 - Senior Seminar in Geography *Units: 3*

Department of Art

The Department Office is located in the Arts & Education building, Room 1233.

Open 8:00 a.m. - 5:00 p.m., Monday - Thursday, closed Fridays.

Faculty

Professor Emerita

Grace Munakata, M.F.A. University of California, Davis

Professors

Michael Henninger, M.F.A. California College of Arts and Crafts

Scott H. Hopkins, M.F.A. University of Arizona

Gwyn Rhabyt (Chair), M.F.A. California College of Arts and Crafts

Suzy Wear, M.A. California State University, Hayward

Associate Professor

Janet Green, M.A. California State University, East Bay

Assistant Professors

Michael Hall, M.F.A Mills College

Ian Pollock, M.F.A. University of California, Berkeley

Jessica Santone, Ph.D. McGill University (Canada)

Department Statement

Courses in the Department of Art develop students' perceptual skills, their access to the imagination, and their ability to think critically and independently. Instruction in the use of art materials and specific art and design techniques and methods, enables students to create original works of art and design reflecting their evolving vision. Our program also fosters a broad cultural awareness of visual arts and design practices in society. Graduating majors should be able to clearly express their ideas about creating art and design. In addition, their grasp of historical and contemporary aesthetic issues should inform their own work. We offer excellent facilities, small classes taught by a distinguished faculty, space to work, and field trips to museums, galleries, and artists' studios.

About the Department

Use our university website link to learn more about what the Art Department has to offer.

- [Advising](#)
- [Office Hours](#)
- [Degree Roadmaps](#)

- University Art Gallery
- Graphic Design/Multimedia Blog
- And more...

Bachelor

Art, B.A.: Art History and Visual Studies Concentration

Art, B.A. Program (120 units)

Program Description

The Art Department offers three programs of study in the Bachelor of Arts (B.A.) Degree. The Art History and Visual Studies concentration develops students' skills in research, visual analysis, and argumentation, leading to a range of careers in the arts or to graduate study. The concentration in Studio Arts and the concentration in Design provide broad survey art and design practices in preparation for continued professional development or creative and design careers.

The B.A. Degree Concentrations:

- Art History & Visual Studies
- Studio Arts
- Design

The program core plus concentrations require 51 units of study in the Department to complete the major. Students of Design or Studio Arts who wish to meet full professional expectations or attend Graduate School are encouraged to choose one of the concentrations in the Bachelor of Fine Arts (B.F.A.) program.

Career Opportunities

Graduates from our Bachelor of Art degree program go on to pursue careers as:

• Artist • Designer • Art Librarian • College Professor • Curator • Development Coordinator • Digital Asset and Rights Manager • Director of Cultural Affairs • Gallery Director • Gallery Sales Consultant • Museum Educator • Museum Visitor Services Specialist • Public Art Program Manager • Registrar or Collections Manager.

Program Learning Outcomes

Students graduating with a Bachelor of Arts degree in Art will be able to:

- Demonstrate proficiency in appropriate art-making skills and tools.
- Imagine, ideate and create using an open, confident, and flexible method through creative processes and design thinking.
- Critique and think critically about art works using appropriate concepts from art history and theory, in the context of culture, contemporary art, and in public and global spheres.
- Communicate clearly and persuasively through their work.
- Integrate arts-related skills in developing professional practices and planning for ethical, sustainable civic engagement.

Degree Requirements Unit-Outline

- A baccalaureate of arts degree requires a total of 120 units:
 - The major requirements consists of 51 units;
 - General Education (GE) & Graduation Requirements (GR) consists of 57 units;
 - Free Electives may consist of 12 units (*actual number of free elective units may depend on GE/GR units*).

Note: It may be possible to double-count units within the graduation requirements or that a course may satisfy both a graduation requirement and a major requirement. Students should contact their program and AACE advisors for information.

Art, B.A. Major Requirements (51 units)

Art Core Coursework

The following 27 core units are required:

- ART 100 - Fundamentals of Drawing *Units: 3 ; G.E./G.R. Area: C1*
- ART 101 - Photography I *Units: 3 ; G.E./G.R. Area: C1*
- ART 102 - 2D Processes *Units: 3 ; G.E./G.R. Area: C1*
- ART 103 - 3D Processes *Units: 3 ; G.E./G.R. Area: C1*
- ART 104 - 4D Processes *Units: 3 ; G.E./G.R. Area: C1*
- ART 220 - Monuments of Western Art I *Units: 3 ; G.E./G.R. Area: C1*
- ART 221 - Monuments of Western Art II *Units: 3 ; G.E./G.R. Area: C1*
- ART 326 - Contemporary Visual Studies I *Units: 3*

Plus

One (1) of the following Senior Project courses depending upon the student's concentration:

- ART 493G - Art History and Visual Studies Senior Project *Units: 3*
- ART 493H - Fine Art Practice Senior Project *Units: 3*
- ART 493I - Graphic Design Senior Project *Units: 3*

Art Concentrations

Students must choose at least one (1) of the following concentrations for 24 units:

- Art, B.A.: Art History and Visual Studies Concentration
- Art, B.A.: Design Concentration
- Art, B.A.: Studio Arts Concentration

Art History and Visual Studies Concentration

The concentration in Art History and Visual Studies trains students in the critical and historical study of art and other visual media. Students in this concentration learn how to approach art objects and images with respect to the socio-political and cultural conditions of their making and reception. This fosters sensitivity for diverse viewpoints and promotes critical awareness of the ethical and aesthetic dimensions of how we see the world. Coursework introduces comparative studies of world cultures, critical

investigations of old and new media technologies, and examination of the global impacts of contemporary visual cultures. Students are also encouraged to broaden the scope of their studies by locating cognate courses on visibility and visual practices outside the department. The concentration prepares graduates for a wide range of careers in the arts or for graduate work in art history, film and media studies, law, and education.

Art History and Visual Studies Core

The following courses for 18 units are required:

- ART 120 - Monuments of World Art *Units: 3 ; G.E./G.R. Area: C1*
- ART 320 - Comparative World Art I *Units: 3 ; G.E./G.R. Area: C4*
- ART 323 - Modern Media, Art, and Culture I *Units: 3*
- ART 420 - Comparative World Art II *Units: 3 ; G.E./G.R. Area: C4*
- ART 423 - Modern Media, Art and Culture II *Units: 3 ; G.E./G.R. Area: C4*
- ART 426 - Contemporary Visual Studies II *Units: 3 ; G.E./G.R. Area: C4*

Upper Division Electives

Take two (2) upper-division University courses for 6 units, with Advisor Approval.

Other Undergraduate Degree Requirements

In addition to major requirements, every student must also complete the University's baccalaureate requirements for graduation, which are described in the Requirements, Exams & Testing chapter of this catalog.

Department Courses Listed by Course Type

Art Courses

Department of Art

Go to information for this department.

Courses

Art

- ART 440 - Forum *Units: 1*
- ART 490 - Independent Study *Units: 1-3*
- ART 491 - BFA Critique *Units: 1*
- ART 498 - Internship *Units: 1-6*

Art: History

- ART 120 - Monuments of World Art *Units: 3 ; G.E./G.R. Area: C1*
- ART 124 - History of Animation *Units: 3 ; G.E./G.R. Area: C1*
- ART 127 - History of Play, Games, and Interactivity *Units: 3 ; G.E./G.R. Area: C1*

- ART 220 - Monuments of Western Art I Units: 3 ; G.E./G.R. Area: C1
- ART 221 - Monuments of Western Art II Units: 3 ; G.E./G.R. Area: C1
- ART 225 - Art and Social Engagement Units: 3 ; G.E./G.R. Area: C1; Social Justice
- ART 226 - History of Graphic Design Units: 3
- ART 229 - Writing About Art and Design Units: 3 ; G.E./G.R. Area: Writing II
- ART 320 - Comparative World Art I Units: 3 ; G.E./G.R. Area: C4
- ART 323 - Modern Media, Art, and Culture I Units: 3
- ART 325 - Race and Representation in American Art Units: 3 ; G.E./G.R. Area: C4; Diversity
- ART 326 - Contemporary Visual Studies I Units: 3
- ART 327 - Cinema Art Studies Units: 3 ; G.E./G.R. Area: C4
- ART 420 - Comparative World Art II Units: 3 ; G.E./G.R. Area: C4
- ART 423 - Modern Media, Art and Culture II Units: 3 ; G.E./G.R. Area: C4
- ART 426 - Contemporary Visual Studies II Units: 3 ; G.E./G.R. Area: C4
- ART 493G - Art History and Visual Studies Senior Project Units: 3

Art: Studio

- ART 100 - Fundamentals of Drawing Units: 3 ; G.E./G.R. Area: C1
- ART 101 - Photography I Units: 3 ; G.E./G.R. Area: C1
- ART 102 - 2D Processes Units: 3 ; G.E./G.R. Area: C1
- ART 103 - 3D Processes Units: 3 ; G.E./G.R. Area: C1
- ART 104 - 4D Processes Units: 3 ; G.E./G.R. Area: C1
- ART 111 - Sculpture I Units: 3 ; G.E./G.R. Area: C1
- ART 115 - Ceramics I Units: 3 ; G.E./G.R. Area: C1
- ART 152 - Web Design I: Foundations Units: 3
- ART 172 - Painting I Units: 3 ; G.E./G.R. Area: C1
- ART 181 - Introduction to Transdisciplinary Art and Design Units: 3 ; G.E./G.R. Area: C1
- ART 211 - Sculpture II Units: 3 ; G.E./G.R. Area: C1
- ART 215 - Ceramics II Units: 3 ; G.E./G.R. Area: C1
- ART 230 - Graphic Arts Units: 3
- ART 240 - Photography II Units: 3
- ART 241 - 4D Project Development and Preproduction Units: 3
- ART 242 - Audio Production for Video and Animation Units: 3 ; G.E./G.R. Area: C1
- ART 243 - Video I Units: 3
- ART 244 - Animation I Units: 3
- ART 245 - Motion Graphics I Units: 3
- ART 246 - 3D Modeling and Animation I Units: 3
- ART 247 - Landscape Photography Units: 3
- ART 251 - Interaction and Experience Design Foundations Units: 3
- ART 255 - Game Design I Units: 3 ; G.E./G.R. Area: C1
- ART 259 - Interaction Design Studio I: Tools for Designers Units: 3
- ART 260 - Introduction to Illustration Units: 3
- ART 270 - Drawing II Units: 3
- ART 272 - Painting II Units: 3
- ART 274 - Figure Drawing I Units: 3
- ART 278 - Bookmaking I Units: 3 ; G.E./G.R. Area: C1
- ART 279 - Printmaking I Units: 3 ; G.E./G.R. Area: C1
- ART 310 - 3D Modeling and Fabrication Units: 3
- ART 311 - Sculpture III Units: 3
- ART 315 - Ceramics III Units: 3
- ART 330 - Typography I Units: 3
- ART 331 - Design Concepts and Narratives Units: 3

- • ART 332 - Design for Production *Units: 3*
- • ART 335 - Design Strategy and Collaborations *Units: 3*
- • ART 336 - Information Design *Units: 3*
- • ART 340A - Creative Photography I *Units: 3*
- • ART 340B - Creative Photography II *Units: 3*
- • ART 340C - Creative Photography III *Units: 3*
- • ART 341 - Advanced Photography and Social Justice *Units: 3 ; G.E./G.R. Area: Social Justice*
- • ART 343 - Video II *Units: 3*
- • ART 344 - Animation II *Units: 3*
- • ART 345 - Motion Graphics II *Units: 3*
- • ART 346 - 3D Modeling and Animation II *Units: 3*
- • ART 348A - Studio Lighting and Product Photography *Units: 3*
- • ART 348B - Advanced Studio Lighting and Product Photography *Units: 3*
- • ART 349A - Portrait Photography *Units: 3*
- • ART 349B - Advanced Portrait Photography *Units: 3*
- • ART 351 - User Experience Theory and Design *Units: 3*
- • ART 352 - Web Design II: Screen Interactions *Units: 3*
- • ART 355 - Game Design II *Units: 3*
- • ART 356 - Interaction Design Studio II : Prototyping the Internet of Things *Units: 3*
- • ART 357 - Interaction Design Studio III : Interactive Immersive Experiences *Units: 3*
- • ART 361 - Color and Concept *Units: 3*
- • ART 362 - Illustrating Dynamic Forms *Units: 3*
- • ART 363 - Narrative Illustration *Units: 3*
- • ART 364 - Advanced Illustration *Units: 3*
- • ART 370 - Drawing III *Units: 3*
- • ART 378 - Bookmaking II *Units: 3*
- • ART 379 - Printmaking II *Units: 3*
- • ART 418 - Advanced 3D Practice *Units: 3*
- • ART 430 - Typography for Print and Interactive Publications *Units: 3*
- • ART 448 - Advanced 4D Projects *Units: 3*
- • ART 449 - Select Topics in Video Animation *Units: 3*
- • ART 452 - Web Design III: Design Evolution *Units: 3*
- • ART 455 - Game Development Team Project *Units: 3*
- • ART 457 - Interaction Design Studio IV : Speculative Interaction Research Lab *Units: 3*
- • ART 472 - Painting III *Units: 3*
- • ART 474 - Figure Drawing II *Units: 3*
- • ART 481 - Transdisciplinary Art and Design Seminar *Units: 3*
- • ART 485 - Transdisciplinary Art Laboratory *Units: 3*
- • ART 493A - Illustration Senior Project *Units: 3*
- • ART 493B - Interaction and Game Design Senior Project *Units: 3*
- • ART 493C - Photography Senior Project *Units: 3*
- • ART 493D - 3D Art & Design Senior Project *Units: 3*
- • ART 493E - Transdisciplinary Senior Project *Units: 3*
- • ART 493F - Video Animation Senior Project *Units: 3*
- • ART 493H - Fine Art Practice Senior Project *Units: 3*
- • ART 493I - Graphic Design Senior Project *Units: 3*
- • ART 496 - Special Topics *Units: 3*

Art, B.A.: Design Concentration

Art, B.A. Program (120 units)

Program Description

The Art Department offers three programs of study in the Bachelor of Arts (B.A.) Degree. The Art History and Visual Studies concentration develops students' skills in research, visual analysis, and argumentation, leading to a range of careers in the arts or to graduate study. The concentration in Studio Arts and the concentration in Design provide broad survey art and design practices in preparation for continued professional development or creative and design careers.

The B.A. Degree Concentrations:

- Art History & Visual Studies
- Studio Arts
- Design

The program core plus concentrations require 51 units of study in the Department to complete the major. Students of Design or Studio Arts who wish to meet full professional expectations or attend Graduate School are encouraged to choose one of the concentrations in the Bachelor of Fine Arts (B.F.A.) program.

Career Opportunities

Graduates from our Bachelor of Art degree program go on to pursue careers as:

• Artist • Designer • Art Librarian • College Professor • Curator • Development Coordinator • Digital Asset and Rights Manager • Director of Cultural Affairs • Gallery Director • Gallery Sales Consultant • Museum Educator • Museum Visitor Services Specialist • Public Art Program Manager • Registrar or Collections Manager.

Program Learning Outcomes

Students graduating with a Bachelor of Arts degree in Art will be able to:

- Demonstrate proficiency in appropriate art-making skills and tools.
- Imagine, ideate and create using an open, confident, and flexible method through creative processes and design thinking.
- Critique and think critically about art works using appropriate concepts from art history and theory, in the context of culture, contemporary art, and in public and global spheres.
- Communicate clearly and persuasively through their work.
- Integrate arts-related skills in developing professional practices and planning for ethical, sustainable civic engagement.

Degree Requirements Unit-Outline

- A baccalaureate of arts degree requires a total of 120 units:
 - The major requirements consists of 51 units;
 - General Education (GE) & Graduation Requirements (GR) consists of 57 units;
 - Free Electives may consist of 12 units (*actual number of free elective units may depend on GE/GR units*).

Note: It may be possible to double-count units within the graduation requirements or that a course may satisfy both a graduation requirement and a major requirement. Students should contact their program and AACE advisors for information.

Art, B.A. Major Requirements (51 units)

Art Core Coursework

The following 27 core units are required:

- ART 100 - Fundamentals of Drawing *Units: 3 ; G.E./G.R. Area: C1*
- ART 101 - Photography I *Units: 3 ; G.E./G.R. Area: C1*
- ART 102 - 2D Processes *Units: 3 ; G.E./G.R. Area: C1*
- ART 103 - 3D Processes *Units: 3 ; G.E./G.R. Area: C1*
- ART 104 - 4D Processes *Units: 3 ; G.E./G.R. Area: C1*
- ART 220 - Monuments of Western Art I *Units: 3 ; G.E./G.R. Area: C1*
- ART 221 - Monuments of Western Art II *Units: 3 ; G.E./G.R. Area: C1*
- ART 326 - Contemporary Visual Studies I *Units: 3*

Plus

One (1) of the following Senior Project courses depending upon the student's concentration:

- ART 493G - Art History and Visual Studies Senior Project *Units: 3*
- ART 493H - Fine Art Practice Senior Project *Units: 3*
- ART 493I - Graphic Design Senior Project *Units: 3*

Art Concentrations

Students must choose at least one (1) of the following concentrations for 24 units:

- Art, B.A.: Art History and Visual Studies Concentration
- Art, B.A.: Design Concentration
- Art, B.A.: Studio Arts Concentration

Design Concentration

The Design Concentration introduces students to processes of design thinking, critical discussion and fundamentals of visual communication. Design projects balance learning of conceptual development with technique and design tools. Students address communication problems with concept-focused solutions that integrate images, text and graphics through hands-on and digital production skills.

Design Core

The following 21 units are required:

- ART 152 - Web Design I: Foundations *Units: 3*
- ART 226 - History of Graphic Design *Units: 3*
- ART 230 - Graphic Arts *Units: 3*

- ART 323 - Modern Media, Art, and Culture I *Units: 3*
- ART 330 - Typography I *Units: 3*
- ART 331 - Design Concepts and Narratives *Units: 3*
- ART 332 - Design for Production *Units: 3*

Restricted Image Electives

Choose one (1) course from the following:

- ART 270 - Drawing II *Units: 3*
- ART 272 - Painting II *Units: 3*
- ART 274 - Figure Drawing I *Units: 3*
- ART 348A - Studio Lighting and Product Photography *Units: 3*
- ART 349A - Portrait Photography *Units: 3*
- ART 361 - Color and Concept *Units: 3*
- ART 362 - Illustrating Dynamic Forms *Units: 3*
- ART 363 - Narrative Illustration *Units: 3*

Other Undergraduate Degree Requirements

In addition to major requirements, every student must also complete the University's baccalaureate requirements for graduation, which are described in the Requirements, Exams & Testing chapter of this catalog.

Department Courses Listed by Course Type

Art Courses

Department of Art

Go to information for this department.

Courses

Art

- ART 440 - Forum *Units: 1*
- ART 490 - Independent Study *Units: 1-3*
- ART 491 - BFA Critique *Units: 1*
- ART 498 - Internship *Units: 1-6*

Art: History

- ART 120 - Monuments of World Art *Units: 3 ; G.E./G.R. Area: C1*
- ART 124 - History of Animation *Units: 3 ; G.E./G.R. Area: C1*
- ART 127 - History of Play, Games, and Interactivity *Units: 3 ; G.E./G.R. Area: C1*
- ART 220 - Monuments of Western Art I *Units: 3 ; G.E./G.R. Area: C1*
- ART 221 - Monuments of Western Art II *Units: 3 ; G.E./G.R. Area: C1*

- ART 225 - Art and Social Engagement *Units: 3 ; G.E./G.R. Area: C1; Social Justice*
- ART 226 - History of Graphic Design *Units: 3*
- ART 229 - Writing About Art and Design *Units: 3 ; G.E./G.R. Area: Writing II*
- ART 320 - Comparative World Art I *Units: 3 ; G.E./G.R. Area: C4*
- ART 323 - Modern Media, Art, and Culture I *Units: 3*
- ART 325 - Race and Representation in American Art *Units: 3 ; G.E./G.R. Area: C4; Diversity*
- ART 326 - Contemporary Visual Studies I *Units: 3*
- ART 327 - Cinema Art Studies *Units: 3 ; G.E./G.R. Area: C4*
- ART 420 - Comparative World Art II *Units: 3 ; G.E./G.R. Area: C4*
- ART 423 - Modern Media, Art and Culture II *Units: 3 ; G.E./G.R. Area: C4*
- ART 426 - Contemporary Visual Studies II *Units: 3 ; G.E./G.R. Area: C4*
- ART 493G - Art History and Visual Studies Senior Project *Units: 3*

Art: Studio

- ART 100 - Fundamentals of Drawing *Units: 3 ; G.E./G.R. Area: C1*
- ART 101 - Photography I *Units: 3 ; G.E./G.R. Area: C1*
- ART 102 - 2D Processes *Units: 3 ; G.E./G.R. Area: C1*
- ART 103 - 3D Processes *Units: 3 ; G.E./G.R. Area: C1*
- ART 104 - 4D Processes *Units: 3 ; G.E./G.R. Area: C1*
- ART 111 - Sculpture I *Units: 3 ; G.E./G.R. Area: C1*
- ART 115 - Ceramics I *Units: 3 ; G.E./G.R. Area: C1*
- ART 152 - Web Design I: Foundations *Units: 3*
- ART 172 - Painting I *Units: 3 ; G.E./G.R. Area: C1*
- ART 181 - Introduction to Transdisciplinary Art and Design *Units: 3 ; G.E./G.R. Area: C1*
- ART 211 - Sculpture II *Units: 3 ; G.E./G.R. Area: C1*
- ART 215 - Ceramics II *Units: 3 ; G.E./G.R. Area: C1*
- ART 230 - Graphic Arts *Units: 3*
- ART 240 - Photography II *Units: 3*
- ART 241 - 4D Project Development and Preproduction *Units: 3*
- ART 242 - Audio Production for Video and Animation *Units: 3 ; G.E./G.R. Area: C1*
- ART 243 - Video I *Units: 3*
- ART 244 - Animation I *Units: 3*
- ART 245 - Motion Graphics I *Units: 3*
- ART 246 - 3D Modeling and Animation I *Units: 3*
- ART 247 - Landscape Photography *Units: 3*
- ART 251 - Interaction and Experience Design Foundations *Units: 3*
- ART 255 - Game Design I *Units: 3 ; G.E./G.R. Area: C1*
- ART 259 - Interaction Design Studio I: Tools for Designers *Units: 3*
- ART 260 - Introduction to Illustration *Units: 3*
- ART 270 - Drawing II *Units: 3*
- ART 272 - Painting II *Units: 3*
- ART 274 - Figure Drawing I *Units: 3*
- ART 278 - Bookmaking I *Units: 3 ; G.E./G.R. Area: C1*
- ART 279 - Printmaking I *Units: 3 ; G.E./G.R. Area: C1*
- ART 310 - 3D Modeling and Fabrication *Units: 3*
- ART 311 - Sculpture III *Units: 3*
- ART 315 - Ceramics III *Units: 3*
- ART 330 - Typography I *Units: 3*
- ART 331 - Design Concepts and Narratives *Units: 3*
- ART 332 - Design for Production *Units: 3*
- ART 335 - Design Strategy and Collaborations *Units: 3*

- • ART 336 - Information Design *Units: 3*
- • ART 340A - Creative Photography I *Units: 3*
- • ART 340B - Creative Photography II *Units: 3*
- • ART 340C - Creative Photography III *Units: 3*
- • ART 341 - Advanced Photography and Social Justice *Units: 3 ; G.E./G.R. Area: Social Justice*
- • ART 343 - Video II *Units: 3*
- • ART 344 - Animation II *Units: 3*
- • ART 345 - Motion Graphics II *Units: 3*
- • ART 346 - 3D Modeling and Animation II *Units: 3*
- • ART 348A - Studio Lighting and Product Photography *Units: 3*
- • ART 348B - Advanced Studio Lighting and Product Photography *Units: 3*
- • ART 349A - Portrait Photography *Units: 3*
- • ART 349B - Advanced Portrait Photography *Units: 3*
- • ART 351 - User Experience Theory and Design *Units: 3*
- • ART 352 - Web Design II: Screen Interactions *Units: 3*
- • ART 355 - Game Design II *Units: 3*
- • ART 356 - Interaction Design Studio II : Prototyping the Internet of Things *Units: 3*
- • ART 357 - Interaction Design Studio III : Interactive Immersive Experiences *Units: 3*
- • ART 361 - Color and Concept *Units: 3*
- • ART 362 - Illustrating Dynamic Forms *Units: 3*
- • ART 363 - Narrative Illustration *Units: 3*
- • ART 364 - Advanced Illustration *Units: 3*
- • ART 370 - Drawing III *Units: 3*
- • ART 378 - Bookmaking II *Units: 3*
- • ART 379 - Printmaking II *Units: 3*
- • ART 418 - Advanced 3D Practice *Units: 3*
- • ART 430 - Typography for Print and Interactive Publications *Units: 3*
- • ART 448 - Advanced 4D Projects *Units: 3*
- • ART 449 - Select Topics in Video Animation *Units: 3*
- • ART 452 - Web Design III: Design Evolution *Units: 3*
- • ART 455 - Game Development Team Project *Units: 3*
- • ART 457 - Interaction Design Studio IV : Speculative Interaction Research Lab *Units: 3*
- • ART 472 - Painting III *Units: 3*
- • ART 474 - Figure Drawing II *Units: 3*
- • ART 481 - Transdisciplinary Art and Design Seminar *Units: 3*
- • ART 485 - Transdisciplinary Art Laboratory *Units: 3*
- • ART 493A - Illustration Senior Project *Units: 3*
- • ART 493B - Interaction and Game Design Senior Project *Units: 3*
- • ART 493C - Photography Senior Project *Units: 3*
- • ART 493D - 3D Art & Design Senior Project *Units: 3*
- • ART 493E - Transdisciplinary Senior Project *Units: 3*
- • ART 493F - Video Animation Senior Project *Units: 3*
- • ART 493H - Fine Art Practice Senior Project *Units: 3*
- • ART 493I - Graphic Design Senior Project *Units: 3*
- • ART 496 - Special Topics *Units: 3*

Art, B.A.: Studio Arts Concentration

Art, B.A. Program (120 units)

Program Description

The Art Department offers three programs of study in the Bachelor of Arts (B.A.) Degree. The Art History and Visual Studies concentration develops students' skills in research, visual analysis, and argumentation, leading to a range of careers in the arts or to graduate study. The concentration in Studio Arts and the concentration in Design provide broad survey art and design practices in preparation for continued professional development or creative and design careers.

The B.A. Degree Concentrations:

- Art History & Visual Studies
- Studio Arts
- Design

The program core plus concentrations require 51 units of study in the Department to complete the major. Students of Design or Studio Arts who wish to meet full professional expectations or attend Graduate School are encouraged to choose one of the concentrations in the Bachelor of Fine Arts (B.F.A.) program.

Career Opportunities

Graduates from our Bachelor of Art degree program go on to pursue careers as:

• Artist • Designer • Art Librarian • College Professor • Curator • Development Coordinator • Digital Asset and Rights Manager • Director of Cultural Affairs • Gallery Director • Gallery Sales Consultant • Museum Educator • Museum Visitor Services Specialist • Public Art Program Manager • Registrar or Collections Manager.

Program Learning Outcomes

Students graduating with a Bachelor of Arts degree in Art will be able to:

- Demonstrate proficiency in appropriate art-making skills and tools.
- Imagine, ideate and create using an open, confident, and flexible method through creative processes and design thinking.
- Critique and think critically about art works using appropriate concepts from art history and theory, in the context of culture, contemporary art, and in public and global spheres.
- Communicate clearly and persuasively through their work.
- Integrate arts-related skills in developing professional practices and planning for ethical, sustainable civic engagement.

Degree Requirements Unit-Outline

- A baccalaureate of arts degree requires a total of 120 units:
 - The major requirements consists of 51 units;
 - General Education (GE) & Graduation Requirements (GR) consists of 57 units;
 - Free Electives may consist of 12 units (*actual number of free elective units may depend on GE/GR units*).

Note: It may be possible to double-count units within the graduation requirements or that a course may satisfy both a graduation requirement and a major requirement. Students should contact their program and AACE advisors for information.

Art, B.A. Major Requirements (51 units)

Art Core Coursework

The following 27 core units are required:

- ART 100 - Fundamentals of Drawing *Units: 3 ; G.E./G.R. Area: C1*
- ART 101 - Photography I *Units: 3 ; G.E./G.R. Area: C1*
- ART 102 - 2D Processes *Units: 3 ; G.E./G.R. Area: C1*
- ART 103 - 3D Processes *Units: 3 ; G.E./G.R. Area: C1*
- ART 104 - 4D Processes *Units: 3 ; G.E./G.R. Area: C1*
- ART 220 - Monuments of Western Art I *Units: 3 ; G.E./G.R. Area: C1*
- ART 221 - Monuments of Western Art II *Units: 3 ; G.E./G.R. Area: C1*
- ART 326 - Contemporary Visual Studies I *Units: 3*

Plus

One (1) of the following Senior Project courses depending upon the student's concentration:

- ART 493G - Art History and Visual Studies Senior Project *Units: 3*
- ART 493H - Fine Art Practice Senior Project *Units: 3*
- ART 493I - Graphic Design Senior Project *Units: 3*

Art Concentrations

Students must choose at least one (1) of the following concentrations for 24 units:

- Art, B.A.: Art History and Visual Studies Concentration
- Art, B.A.: Design Concentration
- Art, B.A.: Studio Arts Concentration

Studio Arts Concentration

The Studio Arts Concentration is offered for students who want to develop a rigorous foundation in fine art practice. With an emphasis on 2D, 3D and emergent art media, students will gain a working knowledge of drawing, painting, digital media and photography. Following 2-3 semesters of study, faculty advisors work with students to design a coherent course of study, with focus in at least one area. Through hands-on studio courses, as well as art historical research, students will conclude their studies with a solo art exhibit and demonstrate a critical understanding of historical and contemporary art practice. (Intermediate and upper division courses in hands-on media are available to students pursuing either the B.A. or the B.F.A. degrees.)

Studio Arts Core

The concentration core requires the completion of 9 units:

- ART 172 - Painting I *Units: 3 ; G.E./G.R. Area: C1*

Plus

Choose one (1) course from each group for 6 units:

- ART 111 - Sculpture I *Units: 3 ; G.E./G.R. Area: C1 or*
- ART 115 - Ceramics I *Units: 3 ; G.E./G.R. Area: C1*
- ART 270 - Drawing II *Units: 3 or*
- ART 274 - Figure Drawing I *Units: 3*

Lower Division Electives

Take two (2) courses from the following for 6 units:

- ART 211 - Sculpture II *Units: 3 ; G.E./G.R. Area: C1*
- ART 215 - Ceramics II *Units: 3 ; G.E./G.R. Area: C1*
- ART 270 - Drawing II *Units: 3*
- ART 272 - Painting II *Units: 3*
- ART 274 - Figure Drawing I *Units: 3*
- ART 278 - Bookmaking I *Units: 3 ; G.E./G.R. Area: C1*
- ART 279 - Printmaking I *Units: 3 ; G.E./G.R. Area: C1*

Upper Division Electives

Only with faculty advisement, select three (3) courses for 9 units to create a coherent course of study. At least two (2) courses must be in one media area: *Note: repeatable-unit courses may count towards the 9 units.*

- ART 311 - Sculpture III *Units: 3*
- ART 315 - Ceramics III *Units: 3*
- ART 370 - Drawing III *Units: 3*
- ART 378 - Bookmaking II *Units: 3*
- ART 379 - Printmaking II *Units: 3*
- ART 472 - Painting III *Units: 3*
- ART 474 - Figure Drawing II *Units: 3*
- ART 496 - Special Topics *Units: 3*

Other Undergraduate Degree Requirements

In addition to major requirements, every student must also complete the University's baccalaureate requirements for graduation, which are described in the Requirements, Exams & Testing chapter of this catalog.

Department Courses Listed by Course Type

Art Courses

Department of Art

Go to information for this department.

Courses

Art

- ART 440 - Forum *Units: 1*
- ART 490 - Independent Study *Units: 1-3*
- ART 491 - BFA Critique *Units: 1*
- ART 498 - Internship *Units: 1-6*

Art: History

- ART 120 - Monuments of World Art *Units: 3 ; G.E./G.R. Area: C1*
- ART 124 - History of Animation *Units: 3 ; G.E./G.R. Area: C1*
- ART 127 - History of Play, Games, and Interactivity *Units: 3 ; G.E./G.R. Area: C1*
- ART 220 - Monuments of Western Art I *Units: 3 ; G.E./G.R. Area: C1*
- ART 221 - Monuments of Western Art II *Units: 3 ; G.E./G.R. Area: C1*
- ART 225 - Art and Social Engagement *Units: 3 ; G.E./G.R. Area: C1; Social Justice*
- ART 226 - History of Graphic Design *Units: 3*
- ART 229 - Writing About Art and Design *Units: 3 ; G.E./G.R. Area: Writing II*
- ART 320 - Comparative World Art I *Units: 3 ; G.E./G.R. Area: C4*
- ART 323 - Modern Media, Art, and Culture I *Units: 3*
- ART 325 - Race and Representation in American Art *Units: 3 ; G.E./G.R. Area: C4; Diversity*
- ART 326 - Contemporary Visual Studies I *Units: 3*
- ART 327 - Cinema Art Studies *Units: 3 ; G.E./G.R. Area: C4*
- ART 420 - Comparative World Art II *Units: 3 ; G.E./G.R. Area: C4*
- ART 423 - Modern Media, Art and Culture II *Units: 3 ; G.E./G.R. Area: C4*
- ART 426 - Contemporary Visual Studies II *Units: 3 ; G.E./G.R. Area: C4*
- ART 493G - Art History and Visual Studies Senior Project *Units: 3*

Art: Studio

- ART 100 - Fundamentals of Drawing *Units: 3 ; G.E./G.R. Area: C1*
- ART 101 - Photography I *Units: 3 ; G.E./G.R. Area: C1*
- ART 102 - 2D Processes *Units: 3 ; G.E./G.R. Area: C1*
- ART 103 - 3D Processes *Units: 3 ; G.E./G.R. Area: C1*
- ART 104 - 4D Processes *Units: 3 ; G.E./G.R. Area: C1*
- ART 111 - Sculpture I *Units: 3 ; G.E./G.R. Area: C1*
- ART 115 - Ceramics I *Units: 3 ; G.E./G.R. Area: C1*
- ART 152 - Web Design I: Foundations *Units: 3*
- ART 172 - Painting I *Units: 3 ; G.E./G.R. Area: C1*
- ART 181 - Introduction to Transdisciplinary Art and Design *Units: 3 ; G.E./G.R. Area: C1*
- ART 211 - Sculpture II *Units: 3 ; G.E./G.R. Area: C1*
- ART 215 - Ceramics II *Units: 3 ; G.E./G.R. Area: C1*
- ART 230 - Graphic Arts *Units: 3*
- ART 240 - Photography II *Units: 3*
- ART 241 - 4D Project Development and Preproduction *Units: 3*
- ART 242 - Audio Production for Video and Animation *Units: 3 ; G.E./G.R. Area: C1*
- ART 243 - Video I *Units: 3*
- ART 244 - Animation I *Units: 3*
- ART 245 - Motion Graphics I *Units: 3*
- ART 246 - 3D Modeling and Animation I *Units: 3*
- ART 247 - Landscape Photography *Units: 3*
- ART 251 - Interaction and Experience Design Foundations *Units: 3*

-
- ART 255 - Game Design I *Units: 3 ; G.E./G.R. Area: C1*
-
- ART 259 - Interaction Design Studio I: Tools for Designers *Units: 3*
-
- ART 260 - Introduction to Illustration *Units: 3*
-
- ART 270 - Drawing II *Units: 3*
-
- ART 272 - Painting II *Units: 3*
-
- ART 274 - Figure Drawing I *Units: 3*
-
- ART 278 - Bookmaking I *Units: 3 ; G.E./G.R. Area: C1*
-
- ART 279 - Printmaking I *Units: 3 ; G.E./G.R. Area: C1*
-
- ART 310 - 3D Modeling and Fabrication *Units: 3*
-
- ART 311 - Sculpture III *Units: 3*
-
- ART 315 - Ceramics III *Units: 3*
-
- ART 330 - Typography I *Units: 3*
-
- ART 331 - Design Concepts and Narratives *Units: 3*
-
- ART 332 - Design for Production *Units: 3*
-
- ART 335 - Design Strategy and Collaborations *Units: 3*
-
- ART 336 - Information Design *Units: 3*
-
- ART 340A - Creative Photography I *Units: 3*
-
- ART 340B - Creative Photography II *Units: 3*
-
- ART 340C - Creative Photography III *Units: 3*
-
- ART 341 - Advanced Photography and Social Justice *Units: 3 ; G.E./G.R. Area: Social Justice*
-
- ART 343 - Video II *Units: 3*
-
- ART 344 - Animation II *Units: 3*
-
- ART 345 - Motion Graphics II *Units: 3*
-
- ART 346 - 3D Modeling and Animation II *Units: 3*
-
- ART 348A - Studio Lighting and Product Photography *Units: 3*
-
- ART 348B - Advanced Studio Lighting and Product Photography *Units: 3*
-
- ART 349A - Portrait Photography *Units: 3*
-
- ART 349B - Advanced Portrait Photography *Units: 3*
-
- ART 351 - User Experience Theory and Design *Units: 3*
-
- ART 352 - Web Design II: Screen Interactions *Units: 3*
-
- ART 355 - Game Design II *Units: 3*
-
- ART 356 - Interaction Design Studio II : Prototyping the Internet of Things *Units: 3*
-
- ART 357 - Interaction Design Studio III : Interactive Immersive Experiences *Units: 3*
-
- ART 361 - Color and Concept *Units: 3*
-
- ART 362 - Illustrating Dynamic Forms *Units: 3*
-
- ART 363 - Narrative Illustration *Units: 3*
-
- ART 364 - Advanced Illustration *Units: 3*
-
- ART 370 - Drawing III *Units: 3*
-
- ART 378 - Bookmaking II *Units: 3*
-
- ART 379 - Printmaking II *Units: 3*
-
- ART 418 - Advanced 3D Practice *Units: 3*
-
- ART 430 - Typography for Print and Interactive Publications *Units: 3*
-
- ART 448 - Advanced 4D Projects *Units: 3*
-
- ART 449 - Select Topics in Video Animation *Units: 3*
-
- ART 452 - Web Design III: Design Evolution *Units: 3*
-
- ART 455 - Game Development Team Project *Units: 3*
-
- ART 457 - Interaction Design Studio IV : Speculative Interaction Research Lab *Units: 3*
-
- ART 472 - Painting III *Units: 3*
-
- ART 474 - Figure Drawing II *Units: 3*
-
- ART 481 - Transdisciplinary Art and Design Seminar *Units: 3*
-
- ART 485 - Transdisciplinary Art Laboratory *Units: 3*

- ART 493A - Illustration Senior Project *Units: 3*
- ART 493B - Interaction and Game Design Senior Project *Units: 3*
- ART 493C - Photography Senior Project *Units: 3*
- ART 493D - 3D Art & Design Senior Project *Units: 3*
- ART 493E - Transdisciplinary Senior Project *Units: 3*
- ART 493F - Video Animation Senior Project *Units: 3*
- ART 493H - Fine Art Practice Senior Project *Units: 3*
- ART 493I - Graphic Design Senior Project *Units: 3*
- ART 496 - Special Topics *Units: 3*

Art, B.F.A.: 3D Art & Design Concentration

Art, B.F.A Program (127 units)

Program Description

The Art Department emphasizes study in our Bachelor of Fine Arts (B.F.A.) Program. This is a professional degree that offers students the opportunity to develop greater expertise through comprehensive and intensive study in a specific area of art or design - a program that leads to successful careers in the visual art and design industries. Students who intend to pursue graduate studies or advanced skills for a professional career typically choose the B.F.A degree.

The B.F.A. professional concentrations require 70 units of study in the Department to complete the major. There is no application procedure to enter the Bachelor of Fine Arts program beyond declaring as a B.F.A. student with a specific concentration. The concentrations are listed below under major requirements.

Career Opportunities

Graduates from the Bachelor of Fine Arts degree program go on to pursue careers as:

• User Experience (UX) Designer • Interaction Designer • Game Designer • Web Designer • User Interface (UI) Designer • User Experience (UX) Researcher • Level Designer • Product Designer • Creative Director • Information Designer/Information Architect • Fine Artist • Product Designer • Architectural Model Maker • 3D Modeler for Film • Craft Artist • Secondary School Teacher • Computer Aided Designer (CAD) • Book Illustrator • Character Designer • Educational Illustrator • Matte Painter (Film and Game Industry) • Animator • Editorial Illustrator • Storyboard Artist • Advertising Illustrator • 3D Modeler • 3D Character Rigger • Digital Painter • Forensic Animator • Stop Motion Animator • Film / Video Editor • Video Production Crew • Motion Graphics Designer • 3D Character Animator • Effects Animator • Compositing Artist • Photo Journalist • Studio / Portrait Photographer • Stock Photographer • Fine Art Photographer • Event Photographer • Fashion Photographer • Commercial / Industrial Photographer • Graphic Designer • Multimedia / Content Developer • Publication Designer • Visual / Branding Designer • Creative Studio Manager • Studio Artist • Muralist • Set Painter/Designer • Production Assistant/Manager • Printmaker • Gallery Assistant • Arts Administrator • Assistant Conservator • Museum & Gallery Preparator • Sculptor • Ceramicist • Production Potter • Art Teacher/Instructor • Game Developer • Creative Technologist • Design Researcher • Wildcard Designer • Imagineer • Environment Designer • Portfolio Coordinator.

Program Learning Outcomes

Students who graduate with a Bachelor's of Fine Arts will be able to:

- Demonstrate mastery of appropriate art-making skills and tools.
- Imagine, ideate and create using an open, confident, and flexible method through creative processes and design thinking.
- Critique and think critically about art works using appropriate concepts from art history and theory, in the context of culture, contemporary art, and in public and global spheres.
- Communicate clearly and persuasively through their work.
- Integrate arts related skills in developing professional practices and planning for ethical, sustainable civic engagement.
- Formulate a plan to develop and maintain a professional creative practice.

Degree Requirements Unit-Outline

- A baccalaureate of fine arts degree requires a total of 127 units:
 - The major requirements consists of 70 units;
 - General Education (GE) & Graduation Requirements (GR) consists of 57 units;
 - Free Electives may consist of 0 units (*actual number of free elective units may depend on GE/GR units*).

Note: It may be possible to double-count units within the graduation requirements or that a course may satisfy both a graduation requirement and a major requirement. Students should contact their program and AACCE advisors for information.

Art, B.F.A. Major Requirements (70 units)

Lower Division Foundation

18 units of lower-division required:

- ART 100 - Fundamentals of Drawing Units: 3 ; G.E./G.R. Area: C1
- ART 101 - Photography I Units: 3 ; G.E./G.R. Area: C1
- ART 102 - 2D Processes Units: 3 ; G.E./G.R. Area: C1
- ART 103 - 3D Processes Units: 3 ; G.E./G.R. Area: C1
- ART 104 - 4D Processes Units: 3 ; G.E./G.R. Area: C1
- ART 120 - Monuments of World Art Units: 3 ; G.E./G.R. Area: C1

Upper Division Foundation

The following 13 units of upper-division are required:

- ART 323 - Modern Media, Art, and Culture I Units: 3
- ART 326 - Contemporary Visual Studies I Units: 3
- ART 491 - BFA Critique Units: 1 * BFA Critique is taken 4 times. (See Errata chapter for changes to these requirements)
- ART 496 - Special Topics Units: 3

Plus:

One (1) upper-division Art History course for 3 units from the following:

- ART 420 - Comparative World Art II *Units: 3 ; G.E./G.R. Area: C4*
- ART 423 - Modern Media, Art and Culture II *Units: 3 ; G.E./G.R. Area: C4*
- ART 426 - Contemporary Visual Studies II *Units: 3 ; G.E./G.R. Area: C4*

Plus:

One (1) of the following Senior Project courses for 3 units as it matches the concentration:

- ART 493A - Illustration Senior Project *Units: 3*
- ART 493B - Interaction and Game Design Senior Project *Units: 3*
- ART 493C - Photography Senior Project *Units: 3*
- ART 493D - 3D Art & Design Senior Project *Units: 3*
- ART 493E - Transdisciplinary Senior Project *Units: 3*
- ART 493F - Video Animation Senior Project *Units: 3*
- ART 493H - Fine Art Practice Senior Project *Units: 3*
- ART 493I - Graphic Design Senior Project *Units: 3*

Concentrations

Students must choose at least one (1) of these concentrations for 33 units:

- Art, B.F.A.: 3D Art & Design Concentration
- Art, B.F.A.: Fine Arts Practice Concentration
- Art, B.F.A.: Graphic Design Concentration
- Art, B.F.A.: Illustration Concentration
- Art, B.F.A.: Interaction & Game Design Concentration
- Art, B.F.A.: Photography Concentration
- Art, B.F.A.: Transdisciplinary Arts Concentration
- Art, B.F.A.: Video & Animation Concentration

3D Art & Design Concentration

The 3D Art and Design concentration combines the fabrication skill sets of sculpture and industrial design with digital 3D modeling to enable students to create work at the growing overlap of design and fine arts. Increasingly sculptors need to use state of the art 3D printers and modeling software, and designers need to prototype their ideas in clay or welded steel. The emphasis is on carefully aligning form and concept through agile use of a variety of media and creating objects that speak clearly to their chosen audience, from the fine art gallery to the commercial production line.

3D Art and Design Core

The following core courses are required:

Beginning Courses

12 units required:

- ART 111 - Sculpture I *Units: 3 ; G.E./G.R. Area: C1*
- ART 115 - Ceramics I *Units: 3 ; G.E./G.R. Area: C1*
- ART 211 - Sculpture II *Units: 3 ; G.E./G.R. Area: C1*
- ART 246 - 3D Modeling and Animation I *Units: 3*

Intermediate Courses

9 units required:

- ART 310 - 3D Modeling and Fabrication *Units: 3 *Required to take twice for 6-units*
- ART 346 - 3D Modeling and Animation II *Units: 3*

Advanced Course

3 units required:

- ART 418 - Advanced 3D Practice *Units: 3*

Art and Design Electives

Beginning Group

Take one (1) of the following:

- ART 215 - Ceramics II *Units: 3 ; G.E./G.R. Area: C1*
- ART 356 - Interaction Design Studio II : Prototyping the Internet of Things
Units: 3

Drawing Group

Take one (1) of the following:

- ART 260 - Introduction to Illustration *Units: 3*
- ART 270 - Drawing II *Units: 3*

Intermediate Group

Take one (1) of the following:

- ART 311 - Sculpture III *Units: 3*
- ART 315 - Ceramics III *Units: 3*
- ART 357 - Interaction Design Studio III : Interactive Immersive
Experiences *Units: 3*

Other Undergraduate Degree Requirements

In addition to major requirements, every student must also complete the University's baccalaureate requirements for graduation, which are described in the Requirements, Exams & Testing chapter of this catalog.

Department Courses Listed by Course Type

Art Courses

Department of Art

Go to information for this department.

Courses

Art

- ART 440 - Forum *Units: 1*
- ART 490 - Independent Study *Units: 1-3*
- ART 491 - BFA Critique *Units: 1*
- ART 498 - Internship *Units: 1-6*

Art: History

- ART 120 - Monuments of World Art *Units: 3 ; G.E./G.R. Area: C1*
- ART 124 - History of Animation *Units: 3 ; G.E./G.R. Area: C1*
- ART 127 - History of Play, Games, and Interactivity *Units: 3 ; G.E./G.R. Area: C1*
- ART 220 - Monuments of Western Art I *Units: 3 ; G.E./G.R. Area: C1*
- ART 221 - Monuments of Western Art II *Units: 3 ; G.E./G.R. Area: C1*
- ART 225 - Art and Social Engagement *Units: 3 ; G.E./G.R. Area: C1; Social Justice*
- ART 226 - History of Graphic Design *Units: 3*
- ART 229 - Writing About Art and Design *Units: 3 ; G.E./G.R. Area: Writing II*
- ART 320 - Comparative World Art I *Units: 3 ; G.E./G.R. Area: C4*
- ART 323 - Modern Media, Art, and Culture I *Units: 3*
- ART 325 - Race and Representation in American Art *Units: 3 ; G.E./G.R. Area: C4; Diversity*
- ART 326 - Contemporary Visual Studies I *Units: 3*
- ART 327 - Cinema Art Studies *Units: 3 ; G.E./G.R. Area: C4*
- ART 420 - Comparative World Art II *Units: 3 ; G.E./G.R. Area: C4*
- ART 423 - Modern Media, Art and Culture II *Units: 3 ; G.E./G.R. Area: C4*
- ART 426 - Contemporary Visual Studies II *Units: 3 ; G.E./G.R. Area: C4*
- ART 493G - Art History and Visual Studies Senior Project *Units: 3*

Art: Studio

- ART 100 - Fundamentals of Drawing *Units: 3 ; G.E./G.R. Area: C1*
- ART 101 - Photography I *Units: 3 ; G.E./G.R. Area: C1*
- ART 102 - 2D Processes *Units: 3 ; G.E./G.R. Area: C1*
- ART 103 - 3D Processes *Units: 3 ; G.E./G.R. Area: C1*
- ART 104 - 4D Processes *Units: 3 ; G.E./G.R. Area: C1*
- ART 111 - Sculpture I *Units: 3 ; G.E./G.R. Area: C1*
- ART 115 - Ceramics I *Units: 3 ; G.E./G.R. Area: C1*
- ART 152 - Web Design I: Foundations *Units: 3*
- ART 172 - Painting I *Units: 3 ; G.E./G.R. Area: C1*
- ART 181 - Introduction to Transdisciplinary Art and Design *Units: 3 ; G.E./G.R. Area: C1*
- ART 211 - Sculpture II *Units: 3 ; G.E./G.R. Area: C1*
- ART 215 - Ceramics II *Units: 3 ; G.E./G.R. Area: C1*
- ART 230 - Graphic Arts *Units: 3*
- ART 240 - Photography II *Units: 3*
- ART 241 - 4D Project Development and Preproduction *Units: 3*
- ART 242 - Audio Production for Video and Animation *Units: 3 ; G.E./G.R. Area: C1*
- ART 243 - Video I *Units: 3*
- ART 244 - Animation I *Units: 3*
- ART 245 - Motion Graphics I *Units: 3*
- ART 246 - 3D Modeling and Animation I *Units: 3*
- ART 247 - Landscape Photography *Units: 3*
- ART 251 - Interaction and Experience Design Foundations *Units: 3*
- ART 255 - Game Design I *Units: 3 ; G.E./G.R. Area: C1*
- ART 259 - Interaction Design Studio I: Tools for Designers *Units: 3*
- ART 260 - Introduction to Illustration *Units: 3*

- • ART 270 - Drawing II *Units: 3*
- • ART 272 - Painting II *Units: 3*
- • ART 274 - Figure Drawing I *Units: 3*
- • ART 278 - Bookmaking I *Units: 3 ; G.E./G.R. Area: C1*
- • ART 279 - Printmaking I *Units: 3 ; G.E./G.R. Area: C1*
- • ART 310 - 3D Modeling and Fabrication *Units: 3*
- • ART 311 - Sculpture III *Units: 3*
- • ART 315 - Ceramics III *Units: 3*
- • ART 330 - Typography I *Units: 3*
- • ART 331 - Design Concepts and Narratives *Units: 3*
- • ART 332 - Design for Production *Units: 3*
- • ART 335 - Design Strategy and Collaborations *Units: 3*
- • ART 336 - Information Design *Units: 3*
- • ART 340A - Creative Photography I *Units: 3*
- • ART 340B - Creative Photography II *Units: 3*
- • ART 340C - Creative Photography III *Units: 3*
- • ART 341 - Advanced Photography and Social Justice *Units: 3 ; G.E./G.R. Area: Social Justice*
- • ART 343 - Video II *Units: 3*
- • ART 344 - Animation II *Units: 3*
- • ART 345 - Motion Graphics II *Units: 3*
- • ART 346 - 3D Modeling and Animation II *Units: 3*
- • ART 348A - Studio Lighting and Product Photography *Units: 3*
- • ART 348B - Advanced Studio Lighting and Product Photography *Units: 3*
- • ART 349A - Portrait Photography *Units: 3*
- • ART 349B - Advanced Portrait Photography *Units: 3*
- • ART 351 - User Experience Theory and Design *Units: 3*
- • ART 352 - Web Design II: Screen Interactions *Units: 3*
- • ART 355 - Game Design II *Units: 3*
- • ART 356 - Interaction Design Studio II : Prototyping the Internet of Things *Units: 3*
- • ART 357 - Interaction Design Studio III : Interactive Immersive Experiences *Units: 3*
- • ART 361 - Color and Concept *Units: 3*
- • ART 362 - Illustrating Dynamic Forms *Units: 3*
- • ART 363 - Narrative Illustration *Units: 3*
- • ART 364 - Advanced Illustration *Units: 3*
- • ART 370 - Drawing III *Units: 3*
- • ART 378 - Bookmaking II *Units: 3*
- • ART 379 - Printmaking II *Units: 3*
- • ART 418 - Advanced 3D Practice *Units: 3*
- • ART 430 - Typography for Print and Interactive Publications *Units: 3*
- • ART 448 - Advanced 4D Projects *Units: 3*
- • ART 449 - Select Topics in Video Animation *Units: 3*
- • ART 452 - Web Design III: Design Evolution *Units: 3*
- • ART 455 - Game Development Team Project *Units: 3*
- • ART 457 - Interaction Design Studio IV : Speculative Interaction Research Lab *Units: 3*
- • ART 472 - Painting III *Units: 3*
- • ART 474 - Figure Drawing II *Units: 3*
- • ART 481 - Transdisciplinary Art and Design Seminar *Units: 3*
- • ART 485 - Transdisciplinary Art Laboratory *Units: 3*
- • ART 493A - Illustration Senior Project *Units: 3*
- • ART 493B - Interaction and Game Design Senior Project *Units: 3*
- • ART 493C - Photography Senior Project *Units: 3*

- ART 493D - 3D Art & Design Senior Project *Units: 3*
- ART 493E - Transdisciplinary Senior Project *Units: 3*
- ART 493F - Video Animation Senior Project *Units: 3*
- ART 493H - Fine Art Practice Senior Project *Units: 3*
- ART 493I - Graphic Design Senior Project *Units: 3*
- ART 496 - Special Topics *Units: 3*

Art, B.F.A.: Fine Arts Practice Concentration

Art, B.F.A Program (127 units)

Program Description

The Art Department emphasizes study in our Bachelor of Fine Arts (B.F.A.) Program. This is a professional degree that offers students the opportunity to develop greater expertise through comprehensive and intensive study in a specific area of art or design - a program that leads to successful careers in the visual art and design industries. Students who intend to pursue graduate studies or advanced skills for a professional career typically choose the B.F.A degree.

The B.F.A. professional concentrations require 70 units of study in the Department to complete the major. There is no application procedure to enter the Bachelor of Fine Arts program beyond declaring as a B.F.A. student with a specific concentration. The concentrations are listed below under major requirements.

Career Opportunities

Graduates from the Bachelor of Fine Arts degree program go on to pursue careers as:

• User Experience (UX) Designer • Interaction Designer • Game Designer • Web Designer • User Interface (UI) Designer • User Experience (UX) Researcher • Level Designer • Product Designer • Creative Director • Information Designer/Information Architect • Fine Artist • Product Designer • Architectural Model Maker • 3D Modeler for Film • Craft Artist • Secondary School Teacher • Computer Aided Designer (CAD) • Book Illustrator • Character Designer • Educational Illustrator • Matte Painter (Film and Game Industry) • Animator • Editorial Illustrator • Storyboard Artist • Advertising Illustrator • 3D Modeler • 3D Character Rigger • Digital Painter • Forensic Animator • Stop Motion Animator • Film / Video Editor • Video Production Crew • Motion Graphics Designer • 3D Character Animator • Effects Animator • Compositing Artist • Photo Journalist • Studio / Portrait Photographer • Stock Photographer • Fine Art Photographer • Event Photographer • Fashion Photographer • Commercial / Industrial Photographer • Graphic Designer • Multimedia / Content Developer • Publication Designer • Visual / Branding Designer • Creative Studio Manager • Studio Artist • Muralist • Set Painter/Designer • Production Assistant/Manager • Printmaker • Gallery Assistant • Arts Administrator • Assistant Conservator • Museum & Gallery Preparator • Sculptor • Ceramicist • Production Potter • Art Teacher/Instructor • Game Developer • Creative Technologist • Design Researcher • Wildcard Designer • Imagineer • Environment Designer • Portfolio Coordinator.

Program Learning Outcomes

Students who graduate with a Bachelor's of Fine Arts will be able to:

- Demonstrate mastery of appropriate art-making skills and tools.
- Imagine, ideate and create using an open, confident, and flexible method through creative processes and design thinking.
- Critique and think critically about art works using appropriate concepts from art history and theory, in the context of culture, contemporary art, and in public and global spheres.
- Communicate clearly and persuasively through their work.
- Integrate arts related skills in developing professional practices and planning for ethical, sustainable civic engagement.
- Formulate a plan to develop and maintain a professional creative practice.

Degree Requirements Unit-Outline

- A baccalaureate of fine arts degree requires a total of 127 units:
 - The major requirements consists of 70 units;
 - General Education (GE) & Graduation Requirements (GR) consists of 57 units;
 - Free Electives may consist of 0 units (*actual number of free elective units may depend on GE/GR units*).

Note: It may be possible to double-count units within the graduation requirements or that a course may satisfy both a graduation requirement and a major requirement. Students should contact their program and AACE advisors for information.

Art, B.F.A. Major Requirements (70 units)

Lower Division Foundation

18 units of lower-division required:

- ART 100 - Fundamentals of Drawing *Units: 3 ; G.E./G.R. Area: C1*
- ART 101 - Photography I *Units: 3 ; G.E./G.R. Area: C1*
- ART 102 - 2D Processes *Units: 3 ; G.E./G.R. Area: C1*
- ART 103 - 3D Processes *Units: 3 ; G.E./G.R. Area: C1*
- ART 104 - 4D Processes *Units: 3 ; G.E./G.R. Area: C1*
- ART 120 - Monuments of World Art *Units: 3 ; G.E./G.R. Area: C1*

Upper Division Foundation

The following 13 units of upper-division are required:

- ART 323 - Modern Media, Art, and Culture I *Units: 3*
- ART 326 - Contemporary Visual Studies I *Units: 3*
- ART 491 - BFA Critique *Units: 1 * BFA Critique is taken 4 times. (See Errata chapter for changes to these requirments)*
- ART 496 - Special Topics *Units: 3*

Plus:

One (1) upper-division Art History course for 3 units from the following:

- ART 420 - Comparative World Art II *Units: 3 ; G.E./G.R. Area: C4*
- ART 423 - Modern Media, Art and Culture II *Units: 3 ; G.E./G.R. Area: C4*

- ART 426 - Contemporary Visual Studies II *Units: 3 ; G.E./G.R. Area: C4*

Plus:

One (1) of the following Senior Project courses for 3 units as it matches the concentration:

- ART 493A - Illustration Senior Project *Units: 3*
- ART 493B - Interaction and Game Design Senior Project *Units: 3*
- ART 493C - Photography Senior Project *Units: 3*
- ART 493D - 3D Art & Design Senior Project *Units: 3*
- ART 493E - Transdisciplinary Senior Project *Units: 3*
- ART 493F - Video Animation Senior Project *Units: 3*
- ART 493H - Fine Art Practice Senior Project *Units: 3*
- ART 493I - Graphic Design Senior Project *Units: 3*

Concentrations

Students must choose at least one (1) of these concentrations for 33 units:

- Art, B.F.A.: 3D Art & Design Concentration
- Art, B.F.A.: Fine Arts Practice Concentration
- Art, B.F.A.: Graphic Design Concentration
- Art, B.F.A.: Illustration Concentration
- Art, B.F.A.: Interaction & Game Design Concentration
- Art, B.F.A.: Photography Concentration
- Art, B.F.A.: Transdisciplinary Arts Concentration
- Art, B.F.A.: Video & Animation Concentration

Fine Arts Practice Concentration

BFA in Fine Arts Practice

The Fine Arts Practice concentration is offered for students who wish to delve deeper into their art practice, develop their key concepts, and create a focused body of work to propel their career in the Arts to the next level. Through intensive hands-on studio courses, thought-provoking academics, and BFA critiques, faculty work with students to hone their skills, widen critical thinking, strengthen creative expression, and form a deeper understanding of their role as a cultural maker. Students can specialize in drawing, painting, printmaking, sculpture, ceramics, or hybrid approaches to artmaking which may incorporate multiple media and digital media. Bridging traditional and contemporary art practices, the program prepares students with skills to produce and sustain a culturally responsive practice that embraces the emerging issues and technologies that impact society and cultural production. This degree is chosen by students who intend to become professional working artists, work in art related fields, or apply for graduate work.

Fine Arts Practice Core

Both painting courses required for 6 units:

- ART 172 - Painting I *Units: 3 ; G.E./G.R. Area: C1*

- ART 272 - Painting II *Units: 3*

Choose one (1) from each group for 6 units:

- ART 111 - Sculpture I *Units: 3 ; G.E./G.R. Area: C1*
- or
- ART 115 - Ceramics I *Units: 3 ; G.E./G.R. Area: C1*
- ART 270 - Drawing II *Units: 3*
- or
- ART 274 - Figure Drawing I *Units: 3*

Restricted Electives - Faculty Advisement Only

Only with faculty advisement, select seven (7) classes for 21 units from the list below to create a coherent course of study.

Choose at least five (5) courses in a specific media area (drawing-painting-printmaking OR ceramics-sculpture), and at least five (5) must be upper division. Up to two (2) electives may be lower or upper division courses from another concentration; example: Video 1, Audio Production, Photo 2, etc.

Note: repeatable-unit courses may count towards the 21 units.

- ART 111 - Sculpture I *Units: 3 ; G.E./G.R. Area: C1 * if not previously taken*
- ART 115 - Ceramics I *Units: 3 ; G.E./G.R. Area: C1 * if not previously taken*
- ART 211 - Sculpture II *Units: 3 ; G.E./G.R. Area: C1*
- ART 215 - Ceramics II *Units: 3 ; G.E./G.R. Area: C1*
- ART 260 - Introduction to Illustration *Units: 3*
- ART 270 - Drawing II *Units: 3*
- ART 272 - Painting II *Units: 3*
- ART 274 - Figure Drawing I *Units: 3*
- ART 278 - Bookmaking I *Units: 3 ; G.E./G.R. Area: C1*
- ART 279 - Printmaking I *Units: 3 ; G.E./G.R. Area: C1*
- ART 311 - Sculpture III *Units: 3*
- ART 315 - Ceramics III *Units: 3*
- ART 361 - Color and Concept *Units: 3*
- ART 370 - Drawing III *Units: 3*
- ART 378 - Bookmaking II *Units: 3*
- ART 379 - Printmaking II *Units: 3*
- ART 472 - Painting III *Units: 3*
- ART 474 - Figure Drawing II *Units: 3*

Other Undergraduate Degree Requirements

In addition to major requirements, every student must also complete the University's baccalaureate requirements for graduation, which are described in the Requirements, Exams & Testing chapter of this catalog.

Department Courses Listed by Course Type

Art Courses

Department of Art

Go to information for this department.

Courses

Art

- ART 440 - Forum *Units: 1*
- ART 490 - Independent Study *Units: 1-3*
- ART 491 - BFA Critique *Units: 1*
- ART 498 - Internship *Units: 1-6*

Art: History

- ART 120 - Monuments of World Art *Units: 3 ; G.E./G.R. Area: C1*
- ART 124 - History of Animation *Units: 3 ; G.E./G.R. Area: C1*
- ART 127 - History of Play, Games, and Interactivity *Units: 3 ; G.E./G.R. Area: C1*
- ART 220 - Monuments of Western Art I *Units: 3 ; G.E./G.R. Area: C1*
- ART 221 - Monuments of Western Art II *Units: 3 ; G.E./G.R. Area: C1*
- ART 225 - Art and Social Engagement *Units: 3 ; G.E./G.R. Area: C1; Social Justice*
- ART 226 - History of Graphic Design *Units: 3*
- ART 229 - Writing About Art and Design *Units: 3 ; G.E./G.R. Area: Writing II*
- ART 320 - Comparative World Art I *Units: 3 ; G.E./G.R. Area: C4*
- ART 323 - Modern Media, Art, and Culture I *Units: 3*
- ART 325 - Race and Representation in American Art *Units: 3 ; G.E./G.R. Area: C4; Diversity*
- ART 326 - Contemporary Visual Studies I *Units: 3*
- ART 327 - Cinema Art Studies *Units: 3 ; G.E./G.R. Area: C4*
- ART 420 - Comparative World Art II *Units: 3 ; G.E./G.R. Area: C4*
- ART 423 - Modern Media, Art and Culture II *Units: 3 ; G.E./G.R. Area: C4*
- ART 426 - Contemporary Visual Studies II *Units: 3 ; G.E./G.R. Area: C4*
- ART 493G - Art History and Visual Studies Senior Project *Units: 3*

Art: Studio

- ART 100 - Fundamentals of Drawing *Units: 3 ; G.E./G.R. Area: C1*
- ART 101 - Photography I *Units: 3 ; G.E./G.R. Area: C1*
- ART 102 - 2D Processes *Units: 3 ; G.E./G.R. Area: C1*
- ART 103 - 3D Processes *Units: 3 ; G.E./G.R. Area: C1*
- ART 104 - 4D Processes *Units: 3 ; G.E./G.R. Area: C1*
- ART 111 - Sculpture I *Units: 3 ; G.E./G.R. Area: C1*
- ART 115 - Ceramics I *Units: 3 ; G.E./G.R. Area: C1*
- ART 152 - Web Design I: Foundations *Units: 3*
- ART 172 - Painting I *Units: 3 ; G.E./G.R. Area: C1*

- • ART 181 - Introduction to Transdisciplinary Art and Design *Units: 3 ; G.E./G.R. Area: C1*
- • ART 211 - Sculpture II *Units: 3 ; G.E./G.R. Area: C1*
- • ART 215 - Ceramics II *Units: 3 ; G.E./G.R. Area: C1*
- • ART 230 - Graphic Arts *Units: 3*
- • ART 240 - Photography II *Units: 3*
- • ART 241 - 4D Project Development and Preproduction *Units: 3*
- • ART 242 - Audio Production for Video and Animation *Units: 3 ; G.E./G.R. Area: C1*
- • ART 243 - Video I *Units: 3*
- • ART 244 - Animation I *Units: 3*
- • ART 245 - Motion Graphics I *Units: 3*
- • ART 246 - 3D Modeling and Animation I *Units: 3*
- • ART 247 - Landscape Photography *Units: 3*
- • ART 251 - Interaction and Experience Design Foundations *Units: 3*
- • ART 255 - Game Design I *Units: 3 ; G.E./G.R. Area: C1*
- • ART 259 - Interaction Design Studio I: Tools for Designers *Units: 3*
- • ART 260 - Introduction to Illustration *Units: 3*
- • ART 270 - Drawing II *Units: 3*
- • ART 272 - Painting II *Units: 3*
- • ART 274 - Figure Drawing I *Units: 3*
- • ART 278 - Bookmaking I *Units: 3 ; G.E./G.R. Area: C1*
- • ART 279 - Printmaking I *Units: 3 ; G.E./G.R. Area: C1*
- • ART 310 - 3D Modeling and Fabrication *Units: 3*
- • ART 311 - Sculpture III *Units: 3*
- • ART 315 - Ceramics III *Units: 3*
- • ART 330 - Typography I *Units: 3*
- • ART 331 - Design Concepts and Narratives *Units: 3*
- • ART 332 - Design for Production *Units: 3*
- • ART 335 - Design Strategy and Collaborations *Units: 3*
- • ART 336 - Information Design *Units: 3*
- • ART 340A - Creative Photography I *Units: 3*
- • ART 340B - Creative Photography II *Units: 3*
- • ART 340C - Creative Photography III *Units: 3*
- • ART 341 - Advanced Photography and Social Justice *Units: 3 ; G.E./G.R. Area: Social Justice*
- • ART 343 - Video II *Units: 3*
- • ART 344 - Animation II *Units: 3*
- • ART 345 - Motion Graphics II *Units: 3*
- • ART 346 - 3D Modeling and Animation II *Units: 3*
- • ART 348A - Studio Lighting and Product Photography *Units: 3*
- • ART 348B - Advanced Studio Lighting and Product Photography *Units: 3*
- • ART 349A - Portrait Photography *Units: 3*
- • ART 349B - Advanced Portrait Photography *Units: 3*
- • ART 351 - User Experience Theory and Design *Units: 3*
- • ART 352 - Web Design II: Screen Interactions *Units: 3*
- • ART 355 - Game Design II *Units: 3*
- • ART 356 - Interaction Design Studio II : Prototyping the Internet of Things *Units: 3*
- • ART 357 - Interaction Design Studio III : Interactive Immersive Experiences *Units: 3*
- • ART 361 - Color and Concept *Units: 3*
- • ART 362 - Illustrating Dynamic Forms *Units: 3*
- • ART 363 - Narrative Illustration *Units: 3*
- • ART 364 - Advanced Illustration *Units: 3*
- • ART 370 - Drawing III *Units: 3*

- ART 378 - Bookmaking II *Units: 3*
- ART 379 - Printmaking II *Units: 3*
- ART 418 - Advanced 3D Practice *Units: 3*
- ART 430 - Typography for Print and Interactive Publications *Units: 3*
- ART 448 - Advanced 4D Projects *Units: 3*
- ART 449 - Select Topics in Video Animation *Units: 3*
- ART 452 - Web Design III: Design Evolution *Units: 3*
- ART 455 - Game Development Team Project *Units: 3*
- ART 457 - Interaction Design Studio IV : Speculative Interaction Research Lab *Units: 3*
- ART 472 - Painting III *Units: 3*
- ART 474 - Figure Drawing II *Units: 3*
- ART 481 - Transdisciplinary Art and Design Seminar *Units: 3*
- ART 485 - Transdisciplinary Art Laboratory *Units: 3*
- ART 493A - Illustration Senior Project *Units: 3*
- ART 493B - Interaction and Game Design Senior Project *Units: 3*
- ART 493C - Photography Senior Project *Units: 3*
- ART 493D - 3D Art & Design Senior Project *Units: 3*
- ART 493E - Transdisciplinary Senior Project *Units: 3*
- ART 493F - Video Animation Senior Project *Units: 3*
- ART 493H - Fine Art Practice Senior Project *Units: 3*
- ART 493I - Graphic Design Senior Project *Units: 3*
- ART 496 - Special Topics *Units: 3*

Art, B.F.A.: Graphic Design Concentration

Art, B.F.A Program (127 units)

Program Description

The Art Department emphasizes study in our Bachelor of Fine Arts (B.F.A.) Program. This is a professional degree that offers students the opportunity to develop greater expertise through comprehensive and intensive study in a specific area of art or design - a program that leads to successful careers in the visual art and design industries. Students who intend to pursue graduate studies or advanced skills for a professional career typically choose the B.F.A degree.

The B.F.A. professional concentrations require 70 units of study in the Department to complete the major. There is no application procedure to enter the Bachelor of Fine Arts program beyond declaring as a B.F.A. student with a specific concentration. The concentrations are listed below under major requirements.

Career Opportunities

Graduates from the Bachelor of Fine Arts degree program go on to pursue careers as:

• User Experience (UX) Designer • Interaction Designer • Game Designer • Web Designer • User Interface (UI) Designer • User Experience (UX) Researcher • Level Designer • Product Designer • Creative Director • Information Designer/Information Architect • Fine Artist • Product Designer • Architectural Model Maker • 3D Modeler for Film • Craft Artist • Secondary School Teacher • Computer Aided Designer (CAD) • Book Illustrator • Character Designer • Educational Illustrator • Matte Painter

(Film and Game Industry) • Animator • Editorial Illustrator • Storyboard Artist • Advertising Illustrator • 3D Modeler • 3D Character Rigger • Digital Painter • Forensic Animator • Stop Motion Animator • Film / Video Editor • Video Production Crew • Motion Graphics Designer • 3D Character Animator • Effects Animator • Compositing Artist • Photo Journalist • Studio / Portrait Photographer • Stock Photographer • Fine Art Photographer • Event Photographer • Fashion Photographer • Commercial / Industrial Photographer • Graphic Designer • Multimedia / Content Developer • Publication Designer • Visual / Branding Designer • Creative Studio Manager • Studio Artist • Muralist • Set Painter/Designer • Production Assistant/Manager • Printmaker • Gallery Assistant • Arts Administrator • Assistant Conservator • Museum & Gallery Preparator • Sculptor • Ceramicist • Production Potter • Art Teacher/Instructor • Game Developer • Creative Technologist • Design Researcher • Wildcard Designer • Imagineer • Environment Designer • Portfolio Coordinator.

Program Learning Outcomes

Students who graduate with a Bachelor's of Fine Arts will be able to:

- Demonstrate mastery of appropriate art-making skills and tools.
- Imagine, ideate and create using an open, confident, and flexible method through creative processes and design thinking.
- Critique and think critically about art works using appropriate concepts from art history and theory, in the context of culture, contemporary art, and in public and global spheres.
- Communicate clearly and persuasively through their work.
- Integrate arts related skills in developing professional practices and planning for ethical, sustainable civic engagement.
- Formulate a plan to develop and maintain a professional creative practice.

Degree Requirements Unit-Outline

- A baccalaureate of fine arts degree requires a total of 127 units:
 - The major requirements consists of 70 units;
 - General Education (GE) & Graduation Requirements (GR) consists of 57 units;
 - Free Electives may consist of 0 units (*actual number of free elective units may depend on GE/GR units*).

Note: It may be possible to double-count units within the graduation requirements or that a course may satisfy both a graduation requirement and a major requirement. Students should contact their program and AACE advisors for information.

Art, B.F.A. Major Requirements (70 units)

Lower Division Foundation

18 units of lower-division required:

- ART 100 - Fundamentals of Drawing Units: 3 ; G.E./G.R. Area: C1
- ART 101 - Photography I Units: 3 ; G.E./G.R. Area: C1
- ART 102 - 2D Processes Units: 3 ; G.E./G.R. Area: C1
- ART 103 - 3D Processes Units: 3 ; G.E./G.R. Area: C1
- ART 104 - 4D Processes Units: 3 ; G.E./G.R. Area: C1
- ART 120 - Monuments of World Art Units: 3 ; G.E./G.R. Area: C1

Upper Division Foundation

The following 13 units of upper-division are required:

- ART 323 - Modern Media, Art, and Culture I *Units: 3*
- ART 326 - Contemporary Visual Studies I *Units: 3*
- ART 491 - BFA Critique *Units: 1 * BFA Critique is taken 4 times. (See Errata chapter for changes to these requirements)*
- ART 496 - Special Topics *Units: 3*

Plus:

One (1) upper-division Art History course for 3 units from the following:

- ART 420 - Comparative World Art II *Units: 3 ; G.E./G.R. Area: C4*
- ART 423 - Modern Media, Art and Culture II *Units: 3 ; G.E./G.R. Area: C4*
- ART 426 - Contemporary Visual Studies II *Units: 3 ; G.E./G.R. Area: C4*

Plus:

One (1) of the following Senior Project courses for 3 units as it matches the concentration:

- ART 493A - Illustration Senior Project *Units: 3*
- ART 493B - Interaction and Game Design Senior Project *Units: 3*
- ART 493C - Photography Senior Project *Units: 3*
- ART 493D - 3D Art & Design Senior Project *Units: 3*
- ART 493E - Transdisciplinary Senior Project *Units: 3*
- ART 493F - Video Animation Senior Project *Units: 3*
- ART 493H - Fine Art Practice Senior Project *Units: 3*
- ART 493I - Graphic Design Senior Project *Units: 3*

Concentrations

Students must choose at least one (1) of these concentrations for 33 units:

- Art, B.F.A.: 3D Art & Design Concentration
- Art, B.F.A.: Fine Arts Practice Concentration
- Art, B.F.A.: Graphic Design Concentration
- Art, B.F.A.: Illustration Concentration
- Art, B.F.A.: Interaction & Game Design Concentration
- Art, B.F.A.: Photography Concentration
- Art, B.F.A.: Transdisciplinary Arts Concentration
- Art, B.F.A.: Video & Animation Concentration

Graphic Design Concentration

In the Graphic Design concentration students build a professional body of knowledge and the skills required for career entry as a visual designer. Projects enable students to acquire refined visual skills in research, aesthetics awareness, humanistic sensibilities, design composition and organization of information. Multifaceted design briefs require individual and collaborative teamwork, greater sophistication of design thinking, and skill sets for working within a broad application of traditional and

new media formats. Students develop the ability to respond to more complex communication challenges with creative conceptual solutions and with enhanced technical expertise.

Graphic Design Core

The following 27 units are required:

- ART 152 - Web Design I: Foundations *Units: 3*
- ART 226 - History of Graphic Design *Units: 3*
- ART 230 - Graphic Arts *Units: 3*
- ART 330 - Typography I *Units: 3*
- ART 331 - Design Concepts and Narratives *Units: 3*
- ART 332 - Design for Production *Units: 3*
- ART 335 - Design Strategy and Collaborations *Units: 3*
- ART 336 - Information Design *Units: 3*
- ART 430 - Typography for Print and Interactive Publications *Units: 3*

Image Electives

Choose one (1) of the following for 3 units:

- ART 270 - Drawing II *Units: 3*
- ART 272 - Painting II *Units: 3*
- ART 274 - Figure Drawing I *Units: 3*
- ART 361 - Color and Concept *Units: 3*
- ART 362 - Illustrating Dynamic Forms *Units: 3*
- ART 363 - Narrative Illustration *Units: 3*
- ART 348A - Studio Lighting and Product Photography *Units: 3*
- ART 349A - Portrait Photography *Units: 3*

Advanced Graphic Design Electives

Choose one (1) of the following for 3 units:

- ART 245 - Motion Graphics I *Units: 3*
- ART 251 - Interaction and Experience Design Foundations *Units: 3*
- ART 255 - Game Design I *Units: 3 ; G.E./G.R. Area: C1*
- ART 259 - Interaction Design Studio I: Tools for Designers *Units: 3*
- ART 345 - Motion Graphics II *Units: 3*
- ART 351 - User Experience Theory and Design *Units: 3*
- ART 352 - Web Design II: Screen Interactions *Units: 3*
- ART 356 - Interaction Design Studio II : Prototyping the Internet of Things
Units: 3
- ART 378 - Bookmaking II *Units: 3*
- ART 379 - Printmaking II *Units: 3*

Other Undergraduate Degree Requirements

In addition to major requirements, every student must also complete the University's baccalaureate requirements for graduation, which are described in the Requirements, Exams & Testing chapter of this catalog.

Department Courses Listed by Course Type

Art Courses

Department of Art

Go to information for this department.

Courses

Art

- ART 440 - Forum *Units: 1*
- ART 490 - Independent Study *Units: 1-3*
- ART 491 - BFA Critique *Units: 1*
- ART 498 - Internship *Units: 1-6*

Art: History

- ART 120 - Monuments of World Art *Units: 3 ; G.E./G.R. Area: C1*
- ART 124 - History of Animation *Units: 3 ; G.E./G.R. Area: C1*
- ART 127 - History of Play, Games, and Interactivity *Units: 3 ; G.E./G.R. Area: C1*
- ART 220 - Monuments of Western Art I *Units: 3 ; G.E./G.R. Area: C1*
- ART 221 - Monuments of Western Art II *Units: 3 ; G.E./G.R. Area: C1*
- ART 225 - Art and Social Engagement *Units: 3 ; G.E./G.R. Area: C1; Social Justice*
- ART 226 - History of Graphic Design *Units: 3*
- ART 229 - Writing About Art and Design *Units: 3 ; G.E./G.R. Area: Writing II*
- ART 320 - Comparative World Art I *Units: 3 ; G.E./G.R. Area: C4*
- ART 323 - Modern Media, Art, and Culture I *Units: 3*
- ART 325 - Race and Representation in American Art *Units: 3 ; G.E./G.R. Area: C4; Diversity*
- ART 326 - Contemporary Visual Studies I *Units: 3*
- ART 327 - Cinema Art Studies *Units: 3 ; G.E./G.R. Area: C4*
- ART 420 - Comparative World Art II *Units: 3 ; G.E./G.R. Area: C4*
- ART 423 - Modern Media, Art and Culture II *Units: 3 ; G.E./G.R. Area: C4*
- ART 426 - Contemporary Visual Studies II *Units: 3 ; G.E./G.R. Area: C4*
- ART 493G - Art History and Visual Studies Senior Project *Units: 3*

Art: Studio

- ART 100 - Fundamentals of Drawing *Units: 3 ; G.E./G.R. Area: C1*
- ART 101 - Photography I *Units: 3 ; G.E./G.R. Area: C1*
- ART 102 - 2D Processes *Units: 3 ; G.E./G.R. Area: C1*
- ART 103 - 3D Processes *Units: 3 ; G.E./G.R. Area: C1*
- ART 104 - 4D Processes *Units: 3 ; G.E./G.R. Area: C1*
- ART 111 - Sculpture I *Units: 3 ; G.E./G.R. Area: C1*
- ART 115 - Ceramics I *Units: 3 ; G.E./G.R. Area: C1*

- ART 152 - Web Design I: Foundations *Units: 3*
- ART 172 - Painting I *Units: 3 ; G.E./G.R. Area: C1*
- ART 181 - Introduction to Transdisciplinary Art and Design *Units: 3 ; G.E./G.R. Area: C1*
- ART 211 - Sculpture II *Units: 3 ; G.E./G.R. Area: C1*
- ART 215 - Ceramics II *Units: 3 ; G.E./G.R. Area: C1*
- ART 230 - Graphic Arts *Units: 3*
- ART 240 - Photography II *Units: 3*
- ART 241 - 4D Project Development and Preproduction *Units: 3*
- ART 242 - Audio Production for Video and Animation *Units: 3 ; G.E./G.R. Area: C1*
- ART 243 - Video I *Units: 3*
- ART 244 - Animation I *Units: 3*
- ART 245 - Motion Graphics I *Units: 3*
- ART 246 - 3D Modeling and Animation I *Units: 3*
- ART 247 - Landscape Photography *Units: 3*
- ART 251 - Interaction and Experience Design Foundations *Units: 3*
- ART 255 - Game Design I *Units: 3 ; G.E./G.R. Area: C1*
- ART 259 - Interaction Design Studio I: Tools for Designers *Units: 3*
- ART 260 - Introduction to Illustration *Units: 3*
- ART 270 - Drawing II *Units: 3*
- ART 272 - Painting II *Units: 3*
- ART 274 - Figure Drawing I *Units: 3*
- ART 278 - Bookmaking I *Units: 3 ; G.E./G.R. Area: C1*
- ART 279 - Printmaking I *Units: 3 ; G.E./G.R. Area: C1*
- ART 310 - 3D Modeling and Fabrication *Units: 3*
- ART 311 - Sculpture III *Units: 3*
- ART 315 - Ceramics III *Units: 3*
- ART 330 - Typography I *Units: 3*
- ART 331 - Design Concepts and Narratives *Units: 3*
- ART 332 - Design for Production *Units: 3*
- ART 335 - Design Strategy and Collaborations *Units: 3*
- ART 336 - Information Design *Units: 3*
- ART 340A - Creative Photography I *Units: 3*
- ART 340B - Creative Photography II *Units: 3*
- ART 340C - Creative Photography III *Units: 3*
- ART 341 - Advanced Photography and Social Justice *Units: 3 ; G.E./G.R. Area: Social Justice*
- ART 343 - Video II *Units: 3*
- ART 344 - Animation II *Units: 3*
- ART 345 - Motion Graphics II *Units: 3*
- ART 346 - 3D Modeling and Animation II *Units: 3*
- ART 348A - Studio Lighting and Product Photography *Units: 3*
- ART 348B - Advanced Studio Lighting and Product Photography *Units: 3*
- ART 349A - Portrait Photography *Units: 3*
- ART 349B - Advanced Portrait Photography *Units: 3*
- ART 351 - User Experience Theory and Design *Units: 3*
- ART 352 - Web Design II: Screen Interactions *Units: 3*
- ART 355 - Game Design II *Units: 3*
- ART 356 - Interaction Design Studio II : Prototyping the Internet of Things *Units: 3*
- ART 357 - Interaction Design Studio III : Interactive Immersive Experiences *Units: 3*
- ART 361 - Color and Concept *Units: 3*
- ART 362 - Illustrating Dynamic Forms *Units: 3*
- ART 363 - Narrative Illustration *Units: 3*

- • ART 364 - Advanced Illustration *Units: 3*
- • ART 370 - Drawing III *Units: 3*
- • ART 378 - Bookmaking II *Units: 3*
- • ART 379 - Printmaking II *Units: 3*
- • ART 418 - Advanced 3D Practice *Units: 3*
- • ART 430 - Typography for Print and Interactive Publications *Units: 3*
- • ART 448 - Advanced 4D Projects *Units: 3*
- • ART 449 - Select Topics in Video Animation *Units: 3*
- • ART 452 - Web Design III: Design Evolution *Units: 3*
- • ART 455 - Game Development Team Project *Units: 3*
- • ART 457 - Interaction Design Studio IV : Speculative Interaction Research Lab *Units: 3*
- • ART 472 - Painting III *Units: 3*
- • ART 474 - Figure Drawing II *Units: 3*
- • ART 481 - Transdisciplinary Art and Design Seminar *Units: 3*
- • ART 485 - Transdisciplinary Art Laboratory *Units: 3*
- • ART 493A - Illustration Senior Project *Units: 3*
- • ART 493B - Interaction and Game Design Senior Project *Units: 3*
- • ART 493C - Photography Senior Project *Units: 3*
- • ART 493D - 3D Art & Design Senior Project *Units: 3*
- • ART 493E - Transdisciplinary Senior Project *Units: 3*
- • ART 493F - Video Animation Senior Project *Units: 3*
- • ART 493H - Fine Art Practice Senior Project *Units: 3*
- • ART 493I - Graphic Design Senior Project *Units: 3*
- • ART 496 - Special Topics *Units: 3*

Art, B.F.A.: Illustration Concentration

Art, B.F.A Program (127 units)

Program Description

The Art Department emphasizes study in our Bachelor of Fine Arts (B.F.A.) Program. This is a professional degree that offers students the opportunity to develop greater expertise through comprehensive and intensive study in a specific area of art or design - a program that leads to successful careers in the visual art and design industries. Students who intend to pursue graduate studies or advanced skills for a professional career typically choose the B.F.A degree.

The B.F.A. professional concentrations require 70 units of study in the Department to complete the major. There is no application procedure to enter the Bachelor of Fine Arts program beyond declaring as a B.F.A. student with a specific concentration. The concentrations are listed below under major requirements.

Career Opportunities

Graduates from the Bachelor of Fine Arts degree program go on to pursue careers as:

• User Experience (UX) Designer • Interaction Designer • Game Designer • Web Designer • User Interface (UI) Designer • User Experience (UX) Researcher • Level Designer • Product Designer • Creative Director • Information Designer/Information Architect • Fine Artist • Product Designer •

Architectural Model Maker • 3D Modeler for Film • Craft Artist • Secondary School Teacher • Computer Aided Designer (CAD) • Book Illustrator • Character Designer • Educational Illustrator • Matte Painter (Film and Game Industry) • Animator • Editorial Illustrator • Storyboard Artist • Advertising Illustrator • 3D Modeler • 3D Character Rigger • Digital Painter • Forensic Animator • Stop Motion Animator • Film / Video Editor • Video Production Crew • Motion Graphics Designer • 3D Character Animator • Effects Animator • Compositing Artist • Photo Journalist • Studio / Portrait Photographer • Stock Photographer • Fine Art Photographer • Event Photographer • Fashion Photographer • Commercial / Industrial Photographer • Graphic Designer • Multimedia / Content Developer • Publication Designer • Visual / Branding Designer • Creative Studio Manager • Studio Artist • Muralist • Set Painter/Designer • Production Assistant/Manager • Printmaker • Gallery Assistant • Arts Administrator • Assistant Conservator • Museum & Gallery Preparator • Sculptor • Ceramicist • Production Potter • Art Teacher/Instructor • Game Developer • Creative Technologist • Design Researcher • Wildcard Designer • Imagineer • Environment Designer • Portfolio Coordinator.

Program Learning Outcomes

Students who graduate with a Bachelor's of Fine Arts will be able to:

- Demonstrate mastery of appropriate art-making skills and tools.
- Imagine, ideate and create using an open, confident, and flexible method through creative processes and design thinking.
- Critique and think critically about art works using appropriate concepts from art history and theory, in the context of culture, contemporary art, and in public and global spheres.
- Communicate clearly and persuasively through their work.
- Integrate arts related skills in developing professional practices and planning for ethical, sustainable civic engagement.
- Formulate a plan to develop and maintain a professional creative practice.

Degree Requirements Unit-Outline

- A baccalaureate of fine arts degree requires a total of 127 units:
 - The major requirements consists of 70 units;
 - General Education (GE) & Graduation Requirements (GR) consists of 57 units;
 - Free Electives may consist of 0 units (*actual number of free elective units may depend on GE/GR units*).

Note: It may be possible to double-count units within the graduation requirements or that a course may satisfy both a graduation requirement and a major requirement. Students should contact their program and AACE advisors for information.

Art, B.F.A. Major Requirements (70 units)

Lower Division Foundation

18 units of lower-division required:

- ART 100 - Fundamentals of Drawing Units: 3 ; G.E./G.R. Area: C1
- ART 101 - Photography I Units: 3 ; G.E./G.R. Area: C1
- ART 102 - 2D Processes Units: 3 ; G.E./G.R. Area: C1
- ART 103 - 3D Processes Units: 3 ; G.E./G.R. Area: C1

- ART 104 - 4D Processes *Units: 3 ; G.E./G.R. Area: C1*
- ART 120 - Monuments of World Art *Units: 3 ; G.E./G.R. Area: C1*

Upper Division Foundation

The following 13 units of upper-division are required:

- ART 323 - Modern Media, Art, and Culture I *Units: 3*
- ART 326 - Contemporary Visual Studies I *Units: 3*
- ART 491 - BFA Critique *Units: 1 * BFA Critique is taken 4 times. (See Errata chapter for changes to these requirements)*
- ART 496 - Special Topics *Units: 3*

Plus:

One (1) upper-division Art History course for 3 units from the following:

- ART 420 - Comparative World Art II *Units: 3 ; G.E./G.R. Area: C4*
- ART 423 - Modern Media, Art and Culture II *Units: 3 ; G.E./G.R. Area: C4*
- ART 426 - Contemporary Visual Studies II *Units: 3 ; G.E./G.R. Area: C4*

Plus:

One (1) of the following Senior Project courses for 3 units as it matches the concentration:

- ART 493A - Illustration Senior Project *Units: 3*
- ART 493B - Interaction and Game Design Senior Project *Units: 3*
- ART 493C - Photography Senior Project *Units: 3*
- ART 493D - 3D Art & Design Senior Project *Units: 3*
- ART 493E - Transdisciplinary Senior Project *Units: 3*
- ART 493F - Video Animation Senior Project *Units: 3*
- ART 493H - Fine Art Practice Senior Project *Units: 3*
- ART 493I - Graphic Design Senior Project *Units: 3*

Concentrations

Students must choose at least one (1) of these concentrations for 33 units:

- Art, B.F.A.: 3D Art & Design Concentration
- Art, B.F.A.: Fine Arts Practice Concentration
- Art, B.F.A.: Graphic Design Concentration
- Art, B.F.A.: Illustration Concentration
- Art, B.F.A.: Interaction & Game Design Concentration
- Art, B.F.A.: Photography Concentration
- Art, B.F.A.: Transdisciplinary Arts Concentration
- Art, B.F.A.: Video & Animation Concentration

Illustration Concentration

The concentration in Illustration prepares students for careers focused in various areas of this professional field. Illustration occupies an artistic space between creativity and communication and is influenced by

society, culture and technology. Our program offers courses to enhance knowledge, skill, creative and professional development. Illustration has areas of specialty including publishing, games, film, concept art, graphic novels, cartoons, children's books, and editorial. Our program begins with practiced emphasis on core and pictorial work then goes on to familiarize the student in ideas and tools specific to the Illustration field, including career and portfolio preparation. The program covers traditional and digital tools to give students a foundation with which to branch out into their own creative endeavors.

Illustration Core

The following 30 units are required:

Beginning

12 units required:

- ART 172 - Painting I *Units: 3 ; G.E./G.R. Area: C1*
- ART 226 - History of Graphic Design *Units: 3*
- ART 260 - Introduction to Illustration *Units: 3*
- ART 274 - Figure Drawing I *Units: 3*

Advanced

15 units required:

- ART 361 - Color and Concept *Units: 3*
- ART 362 - Illustrating Dynamic Forms *Units: 3*
- ART 363 - Narrative Illustration *Units: 3*
- ART 364 - Advanced Illustration *Units: 3*
- ART 474 - Figure Drawing II *Units: 3*

Restricted Electives

Choose two (2) of the following for 6 units:

- ART 230 - Graphic Arts *Units: 3*
- ART 240 - Photography II *Units: 3*
- ART 244 - Animation I *Units: 3*
- ART 245 - Motion Graphics I *Units: 3*
- ART 270 - Drawing II *Units: 3*
- ART 272 - Painting II *Units: 3*
- ART 278 - Bookmaking I *Units: 3 ; G.E./G.R. Area: C1*
- ART 330 - Typography I *Units: 3*
- ART 332 - Design for Production *Units: 3*

Other Undergraduate Degree Requirements

In addition to major requirements, every student must also complete the University's baccalaureate requirements for graduation, which are described in the Requirements, Exams & Testing chapter of this catalog.

Department Courses Listed by Course Type

Art Courses

Department of Art

Go to information for this department.

Courses

Art

- ART 440 - Forum *Units: 1*
- ART 490 - Independent Study *Units: 1-3*
- ART 491 - BFA Critique *Units: 1*
- ART 498 - Internship *Units: 1-6*

Art: History

- ART 120 - Monuments of World Art *Units: 3 ; G.E./G.R. Area: C1*
- ART 124 - History of Animation *Units: 3 ; G.E./G.R. Area: C1*
- ART 127 - History of Play, Games, and Interactivity *Units: 3 ; G.E./G.R. Area: C1*
- ART 220 - Monuments of Western Art I *Units: 3 ; G.E./G.R. Area: C1*
- ART 221 - Monuments of Western Art II *Units: 3 ; G.E./G.R. Area: C1*
- ART 225 - Art and Social Engagement *Units: 3 ; G.E./G.R. Area: C1; Social Justice*
- ART 226 - History of Graphic Design *Units: 3*
- ART 229 - Writing About Art and Design *Units: 3 ; G.E./G.R. Area: Writing II*
- ART 320 - Comparative World Art I *Units: 3 ; G.E./G.R. Area: C4*
- ART 323 - Modern Media, Art, and Culture I *Units: 3*
- ART 325 - Race and Representation in American Art *Units: 3 ; G.E./G.R. Area: C4; Diversity*
- ART 326 - Contemporary Visual Studies I *Units: 3*
- ART 327 - Cinema Art Studies *Units: 3 ; G.E./G.R. Area: C4*
- ART 420 - Comparative World Art II *Units: 3 ; G.E./G.R. Area: C4*
- ART 423 - Modern Media, Art and Culture II *Units: 3 ; G.E./G.R. Area: C4*
- ART 426 - Contemporary Visual Studies II *Units: 3 ; G.E./G.R. Area: C4*
- ART 493G - Art History and Visual Studies Senior Project *Units: 3*

Art: Studio

- ART 100 - Fundamentals of Drawing *Units: 3 ; G.E./G.R. Area: C1*
- ART 101 - Photography I *Units: 3 ; G.E./G.R. Area: C1*
- ART 102 - 2D Processes *Units: 3 ; G.E./G.R. Area: C1*
- ART 103 - 3D Processes *Units: 3 ; G.E./G.R. Area: C1*
- ART 104 - 4D Processes *Units: 3 ; G.E./G.R. Area: C1*
- ART 111 - Sculpture I *Units: 3 ; G.E./G.R. Area: C1*
- ART 115 - Ceramics I *Units: 3 ; G.E./G.R. Area: C1*
- ART 152 - Web Design I: Foundations *Units: 3*
- ART 172 - Painting I *Units: 3 ; G.E./G.R. Area: C1*
- ART 181 - Introduction to Transdisciplinary Art and Design *Units: 3 ; G.E./G.R. Area: C1*
- ART 211 - Sculpture II *Units: 3 ; G.E./G.R. Area: C1*
- ART 215 - Ceramics II *Units: 3 ; G.E./G.R. Area: C1*
- ART 230 - Graphic Arts *Units: 3*

-
- ART 240 - Photography II *Units: 3*
-
- ART 241 - 4D Project Development and Preproduction *Units: 3*
-
- ART 242 - Audio Production for Video and Animation *Units: 3 ; G.E./G.R. Area: C1*
-
- ART 243 - Video I *Units: 3*
-
- ART 244 - Animation I *Units: 3*
-
- ART 245 - Motion Graphics I *Units: 3*
-
- ART 246 - 3D Modeling and Animation I *Units: 3*
-
- ART 247 - Landscape Photography *Units: 3*
-
- ART 251 - Interaction and Experience Design Foundations *Units: 3*
-
- ART 255 - Game Design I *Units: 3 ; G.E./G.R. Area: C1*
-
- ART 259 - Interaction Design Studio I: Tools for Designers *Units: 3*
-
- ART 260 - Introduction to Illustration *Units: 3*
-
- ART 270 - Drawing II *Units: 3*
-
- ART 272 - Painting II *Units: 3*
-
- ART 274 - Figure Drawing I *Units: 3*
-
- ART 278 - Bookmaking I *Units: 3 ; G.E./G.R. Area: C1*
-
- ART 279 - Printmaking I *Units: 3 ; G.E./G.R. Area: C1*
-
- ART 310 - 3D Modeling and Fabrication *Units: 3*
-
- ART 311 - Sculpture III *Units: 3*
-
- ART 315 - Ceramics III *Units: 3*
-
- ART 330 - Typography I *Units: 3*
-
- ART 331 - Design Concepts and Narratives *Units: 3*
-
- ART 332 - Design for Production *Units: 3*
-
- ART 335 - Design Strategy and Collaborations *Units: 3*
-
- ART 336 - Information Design *Units: 3*
-
- ART 340A - Creative Photography I *Units: 3*
-
- ART 340B - Creative Photography II *Units: 3*
-
- ART 340C - Creative Photography III *Units: 3*
-
- ART 341 - Advanced Photography and Social Justice *Units: 3 ; G.E./G.R. Area: Social Justice*
-
- ART 343 - Video II *Units: 3*
-
- ART 344 - Animation II *Units: 3*
-
- ART 345 - Motion Graphics II *Units: 3*
-
- ART 346 - 3D Modeling and Animation II *Units: 3*
-
- ART 348A - Studio Lighting and Product Photography *Units: 3*
-
- ART 348B - Advanced Studio Lighting and Product Photography *Units: 3*
-
- ART 349A - Portrait Photography *Units: 3*
-
- ART 349B - Advanced Portrait Photography *Units: 3*
-
- ART 351 - User Experience Theory and Design *Units: 3*
-
- ART 352 - Web Design II: Screen Interactions *Units: 3*
-
- ART 355 - Game Design II *Units: 3*
-
- ART 356 - Interaction Design Studio II : Prototyping the Internet of Things *Units: 3*
-
- ART 357 - Interaction Design Studio III : Interactive Immersive Experiences *Units: 3*
-
- ART 361 - Color and Concept *Units: 3*
-
- ART 362 - Illustrating Dynamic Forms *Units: 3*
-
- ART 363 - Narrative Illustration *Units: 3*
-
- ART 364 - Advanced Illustration *Units: 3*
-
- ART 370 - Drawing III *Units: 3*
-
- ART 378 - Bookmaking II *Units: 3*
-
- ART 379 - Printmaking II *Units: 3*
-
- ART 418 - Advanced 3D Practice *Units: 3*
-
- ART 430 - Typography for Print and Interactive Publications *Units: 3*

- ART 448 - Advanced 4D Projects *Units: 3*
- ART 449 - Select Topics in Video Animation *Units: 3*
- ART 452 - Web Design III: Design Evolution *Units: 3*
- ART 455 - Game Development Team Project *Units: 3*
- ART 457 - Interaction Design Studio IV : Speculative Interaction Research Lab *Units: 3*
- ART 472 - Painting III *Units: 3*
- ART 474 - Figure Drawing II *Units: 3*
- ART 481 - Transdisciplinary Art and Design Seminar *Units: 3*
- ART 485 - Transdisciplinary Art Laboratory *Units: 3*
- ART 493A - Illustration Senior Project *Units: 3*
- ART 493B - Interaction and Game Design Senior Project *Units: 3*
- ART 493C - Photography Senior Project *Units: 3*
- ART 493D - 3D Art & Design Senior Project *Units: 3*
- ART 493E - Transdisciplinary Senior Project *Units: 3*
- ART 493F - Video Animation Senior Project *Units: 3*
- ART 493H - Fine Art Practice Senior Project *Units: 3*
- ART 493I - Graphic Design Senior Project *Units: 3*
- ART 496 - Special Topics *Units: 3*

Art, B.F.A.: Interaction & Game Design Concentration

Art, B.F.A Program (127 units)

Program Description

The Art Department emphasizes study in our Bachelor of Fine Arts (B.F.A.) Program. This is a professional degree that offers students the opportunity to develop greater expertise through comprehensive and intensive study in a specific area of art or design - a program that leads to successful careers in the visual art and design industries. Students who intend to pursue graduate studies or advanced skills for a professional career typically choose the B.F.A degree.

The B.F.A. professional concentrations require 70 units of study in the Department to complete the major. There is no application procedure to enter the Bachelor of Fine Arts program beyond declaring as a B.F.A. student with a specific concentration. The concentrations are listed below under major requirements.

Career Opportunities

Graduates from the Bachelor of Fine Arts degree program go on to pursue careers as:

• User Experience (UX) Designer • Interaction Designer • Game Designer • Web Designer • User Interface (UI) Designer • User Experience (UX) Researcher • Level Designer • Product Designer • Creative Director • Information Designer/Information Architect • Fine Artist • Product Designer • Architectural Model Maker • 3D Modeler for Film • Craft Artist • Secondary School Teacher • Computer Aided Designer (CAD) • Book Illustrator • Character Designer • Educational Illustrator • Matte Painter (Film and Game Industry) • Animator • Editorial Illustrator • Storyboard Artist • Advertising Illustrator • 3D Modeler • 3D Character Rigger • Digital Painter • Forensic Animator • Stop Motion Animator • Film / Video Editor • Video Production Crew • Motion Graphics Designer • 3D Character Animator • Effects Animator • Compositing Artist • Photo Journalist • Studio / Portrait Photographer • Stock Photographer •

Fine Art Photographer • Event Photographer • Fashion Photographer • Commercial / Industrial Photographer • Graphic Designer • Multimedia / Content Developer • Publication Designer • Visual / Branding Designer • Creative Studio Manager • Studio Artist • Muralist • Set Painter/Designer • Production Assistant/Manager • Printmaker • Gallery Assistant • Arts Administrator • Assistant Conservator • Museum & Gallery Preparator • Sculptor • Ceramicist • Production Potter • Art Teacher/Instructor • Game Developer • Creative Technologist • Design Researcher • Wildcard Designer • Imagineer • Environment Designer • Portfolio Coordinator.

Program Learning Outcomes

Students who graduate with a Bachelor's of Fine Arts will be able to:

- Demonstrate mastery of appropriate art-making skills and tools.
- Imagine, ideate and create using an open, confident, and flexible method through creative processes and design thinking.
- Critique and think critically about art works using appropriate concepts from art history and theory, in the context of culture, contemporary art, and in public and global spheres.
- Communicate clearly and persuasively through their work.
- Integrate arts related skills in developing professional practices and planning for ethical, sustainable civic engagement.
- Formulate a plan to develop and maintain a professional creative practice.

Degree Requirements Unit-Outline

- A baccalaureate of fine arts degree requires a total of 127 units:
 - The major requirements consists of 70 units;
 - General Education (GE) & Graduation Requirements (GR) consists of 57 units;
 - Free Electives may consist of 0 units (*actual number of free elective units may depend on GE/GR units*).

Note: It may be possible to double-count units within the graduation requirements or that a course may satisfy both a graduation requirement and a major requirement. Students should contact their program and AACE advisors for information.

Art, B.F.A. Major Requirements (70 units)

Lower Division Foundation

18 units of lower-division required:

- ART 100 - Fundamentals of Drawing Units: 3 ; G.E./G.R. Area: C1
- ART 101 - Photography I Units: 3 ; G.E./G.R. Area: C1
- ART 102 - 2D Processes Units: 3 ; G.E./G.R. Area: C1
- ART 103 - 3D Processes Units: 3 ; G.E./G.R. Area: C1
- ART 104 - 4D Processes Units: 3 ; G.E./G.R. Area: C1
- ART 120 - Monuments of World Art Units: 3 ; G.E./G.R. Area: C1

Upper Division Foundation

The following 13 units of upper-division are required:

- ART 323 - Modern Media, Art, and Culture I *Units: 3*
- ART 326 - Contemporary Visual Studies I *Units: 3*
- ART 491 - BFA Critique *Units: 1 * BFA Critique is taken 4 times. (See Errata chapter for changes to these requirements)*
- ART 496 - Special Topics *Units: 3*

Plus:

One (1) upper-division Art History course for 3 units from the following:

- ART 420 - Comparative World Art II *Units: 3 ; G.E./G.R. Area: C4*
- ART 423 - Modern Media, Art and Culture II *Units: 3 ; G.E./G.R. Area: C4*
- ART 426 - Contemporary Visual Studies II *Units: 3 ; G.E./G.R. Area: C4*

Plus:

One (1) of the following Senior Project courses for 3 units as it matches the concentration:

- ART 493A - Illustration Senior Project *Units: 3*
- ART 493B - Interaction and Game Design Senior Project *Units: 3*
- ART 493C - Photography Senior Project *Units: 3*
- ART 493D - 3D Art & Design Senior Project *Units: 3*
- ART 493E - Transdisciplinary Senior Project *Units: 3*
- ART 493F - Video Animation Senior Project *Units: 3*
- ART 493H - Fine Art Practice Senior Project *Units: 3*
- ART 493I - Graphic Design Senior Project *Units: 3*

Concentrations

Students must choose at least one (1) of these concentrations for 33 units:

- Art, B.F.A.: 3D Art & Design Concentration
- Art, B.F.A.: Fine Arts Practice Concentration
- Art, B.F.A.: Graphic Design Concentration
- Art, B.F.A.: Illustration Concentration
- Art, B.F.A.: Interaction & Game Design Concentration
- Art, B.F.A.: Photography Concentration
- Art, B.F.A.: Transdisciplinary Arts Concentration
- Art, B.F.A.: Video & Animation Concentration

Interaction & Game Design Concentration

Interaction Design focuses on the creation of meaningful experiences expressed as interactive applications and objects. Game Design applies this to entertainment, both experimental and commercial. Students analyze interactivity in art, design, and everyday life, acquire skills and develop prototypes, and work in collaborative teams to produce successful games and creatively solve real world problems.

Interaction & Game Design Core

The following 27 units are required:

- ART 127 - History of Play, Games, and Interactivity *Units: 3 ; G.E./G.R. Area: C1*
- ART 152 - Web Design I: Foundations *Units: 3*
- ART 241 - 4D Project Development and Preproduction *Units: 3*
- ART 251 - Interaction and Experience Design Foundations *Units: 3*
- ART 255 - Game Design I *Units: 3 ; G.E./G.R. Area: C1*
- ART 259 - Interaction Design Studio I: Tools for Designers *Units: 3*
- ART 351 - User Experience Theory and Design *Units: 3*
- ART 352 - Web Design II: Screen Interactions *Units: 3*
- ART 356 - Interaction Design Studio II : Prototyping the Internet of Things
Units: 3

Restricted Electives

Choose two (2) of the following for 6 units:

- ART 242 - Audio Production for Video and Animation *Units: 3 ; G.E./G.R. Area: C1*
- ART 355 - Game Design II *Units: 3*
- ART 357 - Interaction Design Studio III : Interactive Immersive Experiences *Units: 3*
- ART 452 - Web Design III: Design Evolution *Units: 3*
- ART 455 - Game Development Team Project *Units: 3*

Other Undergraduate Degree Requirements

In addition to major requirements, every student must also complete the University's baccalaureate requirements for graduation, which are described in the Requirements, Exams & Testing chapter of this catalog.

Department Courses Listed by Course Type

Art Courses

Department of Art

Go to information for this department.

Courses

Art

- ART 440 - Forum *Units: 1*
- ART 490 - Independent Study *Units: 1-3*
- ART 491 - BFA Critique *Units: 1*
- ART 498 - Internship *Units: 1-6*

Art: History

- ART 120 - Monuments of World Art *Units: 3 ; G.E./G.R. Area: C1*
- ART 124 - History of Animation *Units: 3 ; G.E./G.R. Area: C1*
- ART 127 - History of Play, Games, and Interactivity *Units: 3 ; G.E./G.R. Area: C1*
- ART 220 - Monuments of Western Art I *Units: 3 ; G.E./G.R. Area: C1*
- ART 221 - Monuments of Western Art II *Units: 3 ; G.E./G.R. Area: C1*
- ART 225 - Art and Social Engagement *Units: 3 ; G.E./G.R. Area: C1; Social Justice*
- ART 226 - History of Graphic Design *Units: 3*
- ART 229 - Writing About Art and Design *Units: 3 ; G.E./G.R. Area: Writing II*
- ART 320 - Comparative World Art I *Units: 3 ; G.E./G.R. Area: C4*
- ART 323 - Modern Media, Art, and Culture I *Units: 3*
- ART 325 - Race and Representation in American Art *Units: 3 ; G.E./G.R. Area: C4; Diversity*
- ART 326 - Contemporary Visual Studies I *Units: 3*
- ART 327 - Cinema Art Studies *Units: 3 ; G.E./G.R. Area: C4*
- ART 420 - Comparative World Art II *Units: 3 ; G.E./G.R. Area: C4*
- ART 423 - Modern Media, Art and Culture II *Units: 3 ; G.E./G.R. Area: C4*
- ART 426 - Contemporary Visual Studies II *Units: 3 ; G.E./G.R. Area: C4*
- ART 493G - Art History and Visual Studies Senior Project *Units: 3*

Art: Studio

- ART 100 - Fundamentals of Drawing *Units: 3 ; G.E./G.R. Area: C1*
- ART 101 - Photography I *Units: 3 ; G.E./G.R. Area: C1*
- ART 102 - 2D Processes *Units: 3 ; G.E./G.R. Area: C1*
- ART 103 - 3D Processes *Units: 3 ; G.E./G.R. Area: C1*
- ART 104 - 4D Processes *Units: 3 ; G.E./G.R. Area: C1*
- ART 111 - Sculpture I *Units: 3 ; G.E./G.R. Area: C1*
- ART 115 - Ceramics I *Units: 3 ; G.E./G.R. Area: C1*
- ART 152 - Web Design I: Foundations *Units: 3*
- ART 172 - Painting I *Units: 3 ; G.E./G.R. Area: C1*
- ART 181 - Introduction to Transdisciplinary Art and Design *Units: 3 ; G.E./G.R. Area: C1*
- ART 211 - Sculpture II *Units: 3 ; G.E./G.R. Area: C1*
- ART 215 - Ceramics II *Units: 3 ; G.E./G.R. Area: C1*
- ART 230 - Graphic Arts *Units: 3*
- ART 240 - Photography II *Units: 3*
- ART 241 - 4D Project Development and Preproduction *Units: 3*
- ART 242 - Audio Production for Video and Animation *Units: 3 ; G.E./G.R. Area: C1*
- ART 243 - Video I *Units: 3*
- ART 244 - Animation I *Units: 3*
- ART 245 - Motion Graphics I *Units: 3*
- ART 246 - 3D Modeling and Animation I *Units: 3*
- ART 247 - Landscape Photography *Units: 3*
- ART 251 - Interaction and Experience Design Foundations *Units: 3*
- ART 255 - Game Design I *Units: 3 ; G.E./G.R. Area: C1*
- ART 259 - Interaction Design Studio I: Tools for Designers *Units: 3*
- ART 260 - Introduction to Illustration *Units: 3*
- ART 270 - Drawing II *Units: 3*
- ART 272 - Painting II *Units: 3*
- ART 274 - Figure Drawing I *Units: 3*
- ART 278 - Bookmaking I *Units: 3 ; G.E./G.R. Area: C1*
- ART 279 - Printmaking I *Units: 3 ; G.E./G.R. Area: C1*

- • ART 310 - 3D Modeling and Fabrication *Units: 3*
- • ART 311 - Sculpture III *Units: 3*
- • ART 315 - Ceramics III *Units: 3*
- • ART 330 - Typography I *Units: 3*
- • ART 331 - Design Concepts and Narratives *Units: 3*
- • ART 332 - Design for Production *Units: 3*
- • ART 335 - Design Strategy and Collaborations *Units: 3*
- • ART 336 - Information Design *Units: 3*
- • ART 340A - Creative Photography I *Units: 3*
- • ART 340B - Creative Photography II *Units: 3*
- • ART 340C - Creative Photography III *Units: 3*
- • ART 341 - Advanced Photography and Social Justice *Units: 3 ; G.E./G.R. Area: Social Justice*
- • ART 343 - Video II *Units: 3*
- • ART 344 - Animation II *Units: 3*
- • ART 345 - Motion Graphics II *Units: 3*
- • ART 346 - 3D Modeling and Animation II *Units: 3*
- • ART 348A - Studio Lighting and Product Photography *Units: 3*
- • ART 348B - Advanced Studio Lighting and Product Photography *Units: 3*
- • ART 349A - Portrait Photography *Units: 3*
- • ART 349B - Advanced Portrait Photography *Units: 3*
- • ART 351 - User Experience Theory and Design *Units: 3*
- • ART 352 - Web Design II: Screen Interactions *Units: 3*
- • ART 355 - Game Design II *Units: 3*
- • ART 356 - Interaction Design Studio II : Prototyping the Internet of Things *Units: 3*
- • ART 357 - Interaction Design Studio III : Interactive Immersive Experiences *Units: 3*
- • ART 361 - Color and Concept *Units: 3*
- • ART 362 - Illustrating Dynamic Forms *Units: 3*
- • ART 363 - Narrative Illustration *Units: 3*
- • ART 364 - Advanced Illustration *Units: 3*
- • ART 370 - Drawing III *Units: 3*
- • ART 378 - Bookmaking II *Units: 3*
- • ART 379 - Printmaking II *Units: 3*
- • ART 418 - Advanced 3D Practice *Units: 3*
- • ART 430 - Typography for Print and Interactive Publications *Units: 3*
- • ART 448 - Advanced 4D Projects *Units: 3*
- • ART 449 - Select Topics in Video Animation *Units: 3*
- • ART 452 - Web Design III: Design Evolution *Units: 3*
- • ART 455 - Game Development Team Project *Units: 3*
- • ART 457 - Interaction Design Studio IV : Speculative Interaction Research Lab *Units: 3*
- • ART 472 - Painting III *Units: 3*
- • ART 474 - Figure Drawing II *Units: 3*
- • ART 481 - Transdisciplinary Art and Design Seminar *Units: 3*
- • ART 485 - Transdisciplinary Art Laboratory *Units: 3*
- • ART 493A - Illustration Senior Project *Units: 3*
- • ART 493B - Interaction and Game Design Senior Project *Units: 3*
- • ART 493C - Photography Senior Project *Units: 3*
- • ART 493D - 3D Art & Design Senior Project *Units: 3*
- • ART 493E - Transdisciplinary Senior Project *Units: 3*
- • ART 493F - Video Animation Senior Project *Units: 3*
- • ART 493H - Fine Art Practice Senior Project *Units: 3*
- • ART 493I - Graphic Design Senior Project *Units: 3*

- ART 496 - Special Topics *Units: 3*

Art, B.F.A.: Photography Concentration

Art, B.F.A Program (127 units)

Program Description

The Art Department emphasizes study in our Bachelor of Fine Arts (B.F.A.) Program. This is a professional degree that offers students the opportunity to develop greater expertise through comprehensive and intensive study in a specific area of art or design - a program that leads to successful careers in the visual art and design industries. Students who intend to pursue graduate studies or advanced skills for a professional career typically choose the B.F.A degree.

The B.F.A. professional concentrations require 70 units of study in the Department to complete the major. There is no application procedure to enter the Bachelor of Fine Arts program beyond declaring as a B.F.A. student with a specific concentration. The concentrations are listed below under major requirements.

Career Opportunities

Graduates from the Bachelor of Fine Arts degree program go on to pursue careers as:

• User Experience (UX) Designer • Interaction Designer • Game Designer • Web Designer • User Interface (UI) Designer • User Experience (UX) Researcher • Level Designer • Product Designer • Creative Director • Information Designer/Information Architect • Fine Artist • Product Designer • Architectural Model Maker • 3D Modeler for Film • Craft Artist • Secondary School Teacher • Computer Aided Designer (CAD) • Book Illustrator • Character Designer • Educational Illustrator • Matte Painter (Film and Game Industry) • Animator • Editorial Illustrator • Storyboard Artist • Advertising Illustrator • 3D Modeler • 3D Character Rigger • Digital Painter • Forensic Animator • Stop Motion Animator • Film / Video Editor • Video Production Crew • Motion Graphics Designer • 3D Character Animator • Effects Animator • Compositing Artist • Photo Journalist • Studio / Portrait Photographer • Stock Photographer • Fine Art Photographer • Event Photographer • Fashion Photographer • Commercial / Industrial Photographer • Graphic Designer • Multimedia / Content Developer • Publication Designer • Visual / Branding Designer • Creative Studio Manager • Studio Artist • Muralist • Set Painter/Designer • Production Assistant/Manager • Printmaker • Gallery Assistant • Arts Administrator • Assistant Conservator • Museum & Gallery Preparator • Sculptor • Ceramicist • Production Potter • Art Teacher/Instructor • Game Developer • Creative Technologist • Design Researcher • Wildcard Designer • Imagineer • Environment Designer • Portfolio Coordinator.

Program Learning Outcomes

Students who graduate with a Bachelor's of Fine Arts will be able to:

- Demonstrate mastery of appropriate art-making skills and tools.
- Imagine, ideate and create using an open, confident, and flexible method through creative processes and design thinking.
- Critique and think critically about art works using appropriate concepts from art history and theory, in the context of culture, contemporary art, and in public and global spheres.

- Communicate clearly and persuasively through their work.
- Integrate arts related skills in developing professional practices and planning for ethical, sustainable civic engagement.
- Formulate a plan to develop and maintain a professional creative practice.

Degree Requirements Unit-Outline

- A baccalaureate of fine arts degree requires a total of 127 units:
 - The major requirements consists of 70 units;
 - General Education (GE) & Graduation Requirements (GR) consists of 57 units;
 - Free Electives may consist of 0 units (*actual number of free elective units may depend on GE/GR units*).

Note: It may be possible to double-count units within the graduation requirements or that a course may satisfy both a graduation requirement and a major requirement. Students should contact their program and AACE advisors for information.

Art, B.F.A. Major Requirements (70 units)

Lower Division Foundation

18 units of lower-division required:

- ART 100 - Fundamentals of Drawing *Units: 3 ; G.E./G.R. Area: C1*
- ART 101 - Photography I *Units: 3 ; G.E./G.R. Area: C1*
- ART 102 - 2D Processes *Units: 3 ; G.E./G.R. Area: C1*
- ART 103 - 3D Processes *Units: 3 ; G.E./G.R. Area: C1*
- ART 104 - 4D Processes *Units: 3 ; G.E./G.R. Area: C1*
- ART 120 - Monuments of World Art *Units: 3 ; G.E./G.R. Area: C1*

Upper Division Foundation

The following 13 units of upper-division are required:

- ART 323 - Modern Media, Art, and Culture I *Units: 3*
- ART 326 - Contemporary Visual Studies I *Units: 3*
- ART 491 - BFA Critique *Units: 1 * BFA Critique is taken 4 times. (See Errata chapter for changes to these requirements)*
- ART 496 - Special Topics *Units: 3*

Plus:

One (1) upper-division Art History course for 3 units from the following:

- ART 420 - Comparative World Art II *Units: 3 ; G.E./G.R. Area: C4*
- ART 423 - Modern Media, Art and Culture II *Units: 3 ; G.E./G.R. Area: C4*
- ART 426 - Contemporary Visual Studies II *Units: 3 ; G.E./G.R. Area: C4*

Plus:

One (1) of the following Senior Project courses for 3 units as it matches the concentration:

- ART 493A - Illustration Senior Project *Units: 3*
- ART 493B - Interaction and Game Design Senior Project *Units: 3*
- ART 493C - Photography Senior Project *Units: 3*
- ART 493D - 3D Art & Design Senior Project *Units: 3*
- ART 493E - Transdisciplinary Senior Project *Units: 3*
- ART 493F - Video Animation Senior Project *Units: 3*
- ART 493H - Fine Art Practice Senior Project *Units: 3*
- ART 493I - Graphic Design Senior Project *Units: 3*

Concentrations

Students must choose at least one (1) of these concentrations for 33 units:

- Art, B.F.A.: 3D Art & Design Concentration
- Art, B.F.A.: Fine Arts Practice Concentration
- Art, B.F.A.: Graphic Design Concentration
- Art, B.F.A.: Illustration Concentration
- Art, B.F.A.: Interaction & Game Design Concentration
- Art, B.F.A.: Photography Concentration
- Art, B.F.A.: Transdisciplinary Arts Concentration
- Art, B.F.A.: Video & Animation Concentration

Photography Concentration

The concentration in Photography provides well-grounded studies in the aesthetic and practical areas of contemporary camera-generated imagery with an emphasis on digital technologies. Students take a wide range of classes, including fine art, studio lighting, and advanced digital imaging which culminate in a capstone class designed to prepare the students for a career in photography or to apply to graduate school. The program's goal is to provide students with the visual, technical, conceptual, and professional vocabulary they need to succeed in their field.

Photography Core

The following 24 units are required:

- ART 152 - Web Design I: Foundations *Units: 3*
- ART 240 - Photography II *Units: 3*
- ART 340A - Creative Photography I *Units: 3*
- ART 340B - Creative Photography II *Units: 3*
- ART 340C - Creative Photography III *Units: 3*
- ART 341 - Advanced Photography and Social Justice *Units: 3 ; G.E./G.R. Area: Social Justice*
- ART 348A - Studio Lighting and Product Photography *Units: 3*
- ART 349A - Portrait Photography *Units: 3*

Restricted Electives

Choose three (3) of the following for 9 units:

- ART 111 - Sculpture I *Units: 3 ; G.E./G.R. Area: C1*
- ART 115 - Ceramics I *Units: 3 ; G.E./G.R. Area: C1*
- ART 172 - Painting I *Units: 3 ; G.E./G.R. Area: C1*
- ART 241 - 4D Project Development and Preproduction *Units: 3*
- ART 242 - Audio Production for Video and Animation *Units: 3 ; G.E./G.R. Area: C1*
- ART 243 - Video I *Units: 3*
- ART 247 - Landscape Photography *Units: 3*
- ART 251 - Interaction and Experience Design Foundations *Units: 3*
- ART 270 - Drawing II *Units: 3*
- ART 274 - Figure Drawing I *Units: 3*
- ART 278 - Bookmaking I *Units: 3 ; G.E./G.R. Area: C1*
- ART 279 - Printmaking I *Units: 3 ; G.E./G.R. Area: C1*
- ART 340C - Creative Photography III *Units: 3*
- ART 348B - Advanced Studio Lighting and Product Photography *Units: 3*
- ART 349B - Advanced Portrait Photography *Units: 3*
- ART 496 - Special Topics *Units: 3*

Other Undergraduate Degree Requirements

In addition to major requirements, every student must also complete the University's baccalaureate requirements for graduation, which are described in the Requirements, Exams & Testing chapter of this catalog.

Department Courses Listed by Course Type

Art Courses

Department of Art

Go to information for this department.

Courses

Art

- ART 440 - Forum *Units: 1*
- ART 490 - Independent Study *Units: 1-3*
- ART 491 - BFA Critique *Units: 1*
- ART 498 - Internship *Units: 1-6*

Art: History

- ART 120 - Monuments of World Art *Units: 3 ; G.E./G.R. Area: C1*
- ART 124 - History of Animation *Units: 3 ; G.E./G.R. Area: C1*
- ART 127 - History of Play, Games, and Interactivity *Units: 3 ; G.E./G.R. Area: C1*
- ART 220 - Monuments of Western Art I *Units: 3 ; G.E./G.R. Area: C1*

- ART 221 - Monuments of Western Art II *Units: 3 ; G.E./G.R. Area: C1*
- ART 225 - Art and Social Engagement *Units: 3 ; G.E./G.R. Area: C1; Social Justice*
- ART 226 - History of Graphic Design *Units: 3*
- ART 229 - Writing About Art and Design *Units: 3 ; G.E./G.R. Area: Writing II*
- ART 320 - Comparative World Art I *Units: 3 ; G.E./G.R. Area: C4*
- ART 323 - Modern Media, Art, and Culture I *Units: 3*
- ART 325 - Race and Representation in American Art *Units: 3 ; G.E./G.R. Area: C4; Diversity*
- ART 326 - Contemporary Visual Studies I *Units: 3*
- ART 327 - Cinema Art Studies *Units: 3 ; G.E./G.R. Area: C4*
- ART 420 - Comparative World Art II *Units: 3 ; G.E./G.R. Area: C4*
- ART 423 - Modern Media, Art and Culture II *Units: 3 ; G.E./G.R. Area: C4*
- ART 426 - Contemporary Visual Studies II *Units: 3 ; G.E./G.R. Area: C4*
- ART 493G - Art History and Visual Studies Senior Project *Units: 3*

Art: Studio

- ART 100 - Fundamentals of Drawing *Units: 3 ; G.E./G.R. Area: C1*
- ART 101 - Photography I *Units: 3 ; G.E./G.R. Area: C1*
- ART 102 - 2D Processes *Units: 3 ; G.E./G.R. Area: C1*
- ART 103 - 3D Processes *Units: 3 ; G.E./G.R. Area: C1*
- ART 104 - 4D Processes *Units: 3 ; G.E./G.R. Area: C1*
- ART 111 - Sculpture I *Units: 3 ; G.E./G.R. Area: C1*
- ART 115 - Ceramics I *Units: 3 ; G.E./G.R. Area: C1*
- ART 152 - Web Design I: Foundations *Units: 3*
- ART 172 - Painting I *Units: 3 ; G.E./G.R. Area: C1*
- ART 181 - Introduction to Transdisciplinary Art and Design *Units: 3 ; G.E./G.R. Area: C1*
- ART 211 - Sculpture II *Units: 3 ; G.E./G.R. Area: C1*
- ART 215 - Ceramics II *Units: 3 ; G.E./G.R. Area: C1*
- ART 230 - Graphic Arts *Units: 3*
- ART 240 - Photography II *Units: 3*
- ART 241 - 4D Project Development and Preproduction *Units: 3*
- ART 242 - Audio Production for Video and Animation *Units: 3 ; G.E./G.R. Area: C1*
- ART 243 - Video I *Units: 3*
- ART 244 - Animation I *Units: 3*
- ART 245 - Motion Graphics I *Units: 3*
- ART 246 - 3D Modeling and Animation I *Units: 3*
- ART 247 - Landscape Photography *Units: 3*
- ART 251 - Interaction and Experience Design Foundations *Units: 3*
- ART 255 - Game Design I *Units: 3 ; G.E./G.R. Area: C1*
- ART 259 - Interaction Design Studio I: Tools for Designers *Units: 3*
- ART 260 - Introduction to Illustration *Units: 3*
- ART 270 - Drawing II *Units: 3*
- ART 272 - Painting II *Units: 3*
- ART 274 - Figure Drawing I *Units: 3*
- ART 278 - Bookmaking I *Units: 3 ; G.E./G.R. Area: C1*
- ART 279 - Printmaking I *Units: 3 ; G.E./G.R. Area: C1*
- ART 310 - 3D Modeling and Fabrication *Units: 3*
- ART 311 - Sculpture III *Units: 3*
- ART 315 - Ceramics III *Units: 3*
- ART 330 - Typography I *Units: 3*
- ART 331 - Design Concepts and Narratives *Units: 3*
- ART 332 - Design for Production *Units: 3*

- • ART 335 - Design Strategy and Collaborations *Units: 3*
- • ART 336 - Information Design *Units: 3*
- • ART 340A - Creative Photography I *Units: 3*
- • ART 340B - Creative Photography II *Units: 3*
- • ART 340C - Creative Photography III *Units: 3*
- • ART 341 - Advanced Photography and Social Justice *Units: 3 ; G.E./G.R. Area: Social Justice*
- • ART 343 - Video II *Units: 3*
- • ART 344 - Animation II *Units: 3*
- • ART 345 - Motion Graphics II *Units: 3*
- • ART 346 - 3D Modeling and Animation II *Units: 3*
- • ART 348A - Studio Lighting and Product Photography *Units: 3*
- • ART 348B - Advanced Studio Lighting and Product Photography *Units: 3*
- • ART 349A - Portrait Photography *Units: 3*
- • ART 349B - Advanced Portrait Photography *Units: 3*
- • ART 351 - User Experience Theory and Design *Units: 3*
- • ART 352 - Web Design II: Screen Interactions *Units: 3*
- • ART 355 - Game Design II *Units: 3*
- • ART 356 - Interaction Design Studio II : Prototyping the Internet of Things *Units: 3*
- • ART 357 - Interaction Design Studio III : Interactive Immersive Experiences *Units: 3*
- • ART 361 - Color and Concept *Units: 3*
- • ART 362 - Illustrating Dynamic Forms *Units: 3*
- • ART 363 - Narrative Illustration *Units: 3*
- • ART 364 - Advanced Illustration *Units: 3*
- • ART 370 - Drawing III *Units: 3*
- • ART 378 - Bookmaking II *Units: 3*
- • ART 379 - Printmaking II *Units: 3*
- • ART 418 - Advanced 3D Practice *Units: 3*
- • ART 430 - Typography for Print and Interactive Publications *Units: 3*
- • ART 448 - Advanced 4D Projects *Units: 3*
- • ART 449 - Select Topics in Video Animation *Units: 3*
- • ART 452 - Web Design III: Design Evolution *Units: 3*
- • ART 455 - Game Development Team Project *Units: 3*
- • ART 457 - Interaction Design Studio IV : Speculative Interaction Research Lab *Units: 3*
- • ART 472 - Painting III *Units: 3*
- • ART 474 - Figure Drawing II *Units: 3*
- • ART 481 - Transdisciplinary Art and Design Seminar *Units: 3*
- • ART 485 - Transdisciplinary Art Laboratory *Units: 3*
- • ART 493A - Illustration Senior Project *Units: 3*
- • ART 493B - Interaction and Game Design Senior Project *Units: 3*
- • ART 493C - Photography Senior Project *Units: 3*
- • ART 493D - 3D Art & Design Senior Project *Units: 3*
- • ART 493E - Transdisciplinary Senior Project *Units: 3*
- • ART 493F - Video Animation Senior Project *Units: 3*
- • ART 493H - Fine Art Practice Senior Project *Units: 3*
- • ART 493I - Graphic Design Senior Project *Units: 3*
- • ART 496 - Special Topics *Units: 3*

Art, B.F.A.: Transdisciplinary Arts Concentration

Art, B.F.A Program (127 units)

Program Description

The Art Department emphasizes study in our Bachelor of Fine Arts (B.F.A.) Program. This is a professional degree that offers students the opportunity to develop greater expertise through comprehensive and intensive study in a specific area of art or design - a program that leads to successful careers in the visual art and design industries. Students who intend to pursue graduate studies or advanced skills for a professional career typically choose the B.F.A degree.

The B.F.A. professional concentrations require 70 units of study in the Department to complete the major. There is no application procedure to enter the Bachelor of Fine Arts program beyond declaring as a B.F.A. student with a specific concentration. The concentrations are listed below under major requirements.

Career Opportunities

Graduates from the Bachelor of Fine Arts degree program go on to pursue careers as:

• User Experience (UX) Designer • Interaction Designer • Game Designer • Web Designer • User Interface (UI) Designer • User Experience (UX) Researcher • Level Designer • Product Designer • Creative Director • Information Designer/Information Architect • Fine Artist • Product Designer • Architectural Model Maker • 3D Modeler for Film • Craft Artist • Secondary School Teacher • Computer Aided Designer (CAD) • Book Illustrator • Character Designer • Educational Illustrator • Matte Painter (Film and Game Industry) • Animator • Editorial Illustrator • Storyboard Artist • Advertising Illustrator • 3D Modeler • 3D Character Rigger • Digital Painter • Forensic Animator • Stop Motion Animator • Film / Video Editor • Video Production Crew • Motion Graphics Designer • 3D Character Animator • Effects Animator • Compositing Artist • Photo Journalist • Studio / Portrait Photographer • Stock Photographer • Fine Art Photographer • Event Photographer • Fashion Photographer • Commercial / Industrial Photographer • Graphic Designer • Multimedia / Content Developer • Publication Designer • Visual / Branding Designer • Creative Studio Manager • Studio Artist • Muralist • Set Painter/Designer • Production Assistant/Manager • Printmaker • Gallery Assistant • Arts Administrator • Assistant Conservator • Museum & Gallery Preparator • Sculptor • Ceramicist • Production Potter • Art Teacher/Instructor • Game Developer • Creative Technologist • Design Researcher • Wildcard Designer • Imagineer • Environment Designer • Portfolio Coordinator.

Program Learning Outcomes

Students who graduate with a Bachelor's of Fine Arts will be able to:

- Demonstrate mastery of appropriate art-making skills and tools.
- Imagine, ideate and create using an open, confident, and flexible method through creative processes and design thinking.
- Critique and think critically about art works using appropriate concepts from art history and theory, in the context of culture, contemporary art, and in public and global spheres.
- Communicate clearly and persuasively through their work.
- Integrate arts related skills in developing professional practices and planning for ethical, sustainable civic engagement.
- Formulate a plan to develop and maintain a professional creative practice.

Degree Requirements Unit-Outline

- A baccalaureate of fine arts degree requires a total of 127 units:
 - The major requirements consists of 70 units;
 - General Education (GE) & Graduation Requirements (GR) consists of 57 units;
 - Free Electives may consist of 0 units (*actual number of free elective units may depend on GE/GR units*).

Note: It may be possible to double-count units within the graduation requirements or that a course may satisfy both a graduation requirement and a major requirement. Students should contact their program and AAC&E advisors for information.

Art, B.F.A. Major Requirements (70 units)

Lower Division Foundation

18 units of lower-division required:

- ART 100 - Fundamentals of Drawing *Units: 3 ; G.E./G.R. Area: C1*
- ART 101 - Photography I *Units: 3 ; G.E./G.R. Area: C1*
- ART 102 - 2D Processes *Units: 3 ; G.E./G.R. Area: C1*
- ART 103 - 3D Processes *Units: 3 ; G.E./G.R. Area: C1*
- ART 104 - 4D Processes *Units: 3 ; G.E./G.R. Area: C1*
- ART 120 - Monuments of World Art *Units: 3 ; G.E./G.R. Area: C1*

Upper Division Foundation

The following 13 units of upper-division are required:

- ART 323 - Modern Media, Art, and Culture I *Units: 3*
- ART 326 - Contemporary Visual Studies I *Units: 3*
- ART 491 - BFA Critique *Units: 1 * BFA Critique is taken 4 times. (See Errata chapter for changes to these requirements)*
- ART 496 - Special Topics *Units: 3*

Plus:

One (1) upper-division Art History course for 3 units from the following:

- ART 420 - Comparative World Art II *Units: 3 ; G.E./G.R. Area: C4*
- ART 423 - Modern Media, Art and Culture II *Units: 3 ; G.E./G.R. Area: C4*
- ART 426 - Contemporary Visual Studies II *Units: 3 ; G.E./G.R. Area: C4*

Plus:

One (1) of the following Senior Project courses for 3 units as it matches the concentration:

- ART 493A - Illustration Senior Project *Units: 3*
- ART 493B - Interaction and Game Design Senior Project *Units: 3*
- ART 493C - Photography Senior Project *Units: 3*
- ART 493D - 3D Art & Design Senior Project *Units: 3*
- ART 493E - Transdisciplinary Senior Project *Units: 3*
- ART 493F - Video Animation Senior Project *Units: 3*
- ART 493H - Fine Art Practice Senior Project *Units: 3*

- **ART 493I - Graphic Design Senior Project** *Units: 3*

Concentrations

Students must choose at least one (1) of these concentrations for 33 units:

- Art, B.F.A.: 3D Art & Design Concentration
- Art, B.F.A.: Fine Arts Practice Concentration
- Art, B.F.A.: Graphic Design Concentration
- Art, B.F.A.: Illustration Concentration
- Art, B.F.A.: Interaction & Game Design Concentration
- Art, B.F.A.: Photography Concentration
- Art, B.F.A.: Transdisciplinary Arts Concentration
- Art, B.F.A.: Video & Animation Concentration

Transdisciplinary Arts Concentration

The concentration in Transdisciplinary Arts prepares students to tackle complex real world problems that demand multiple ways of knowing. The program is designed with flexibility, to permit new pathways for learning between, across, and beyond traditional disciplines. Coursework is completed in two or more departments so that students acquire a breadth of skills with which to creatively answer future design challenges. Students are also trained in visual arts research and the integration of theory and practice. They practice strategies for successful collaboration that will prepare them for careers as Art Directors, Medical Illustrators, Information Designers, Game Developers, Imagineers, Medical Animators, Science and Technical Illustrators, Executive Communications and Marketing Specialists, Creative Technologist or continue their education to become Art Teachers and Professors or Art Therapists.

Transdisciplinary Arts Core

The following 33 units are required:

Beginning

The following 15 units are required:

- **ART 181 - Introduction to Transdisciplinary Art and Design** *Units: 3 ; G.E./G.R. Area: C1*
- or

- **ART 251 - Interaction and Experience Design Foundations** *Units: 3*
- Plus:

Two (2) lower-division electives from ART for 6 units.

Two (2) lower-division electives outside of ART for 6 units.

Advanced

The following 18 units are required:

- **ART 351 - User Experience Theory and Design** *Units: 3*
- **ART 426 - Contemporary Visual Studies II** *Units: 3 ; G.E./G.R. Area: C4*
- **ART 481 - Transdisciplinary Art and Design Seminar** *Units: 3*
- **ART 485 - Transdisciplinary Art Laboratory** *Units: 3 ; Or, one upper-division elective from ART for 3 units.*
- Two lower-division or upper-division electives from outside of ART for 6 units.

Other Undergraduate Degree Requirements

In addition to major requirements, every student must also complete the University's baccalaureate requirements for graduation, which are described in the Requirements, Exams & Testing chapter of this catalog.

Department Courses Listed by Course Type

Art Courses

Department of Art

Go to information for this department.

Courses

Art

- ART 440 - Forum *Units: 1*
- ART 490 - Independent Study *Units: 1-3*
- ART 491 - BFA Critique *Units: 1*
- ART 498 - Internship *Units: 1-6*

Art: History

- ART 120 - Monuments of World Art *Units: 3 ; G.E./G.R. Area: C1*
- ART 124 - History of Animation *Units: 3 ; G.E./G.R. Area: C1*
- ART 127 - History of Play, Games, and Interactivity *Units: 3 ; G.E./G.R. Area: C1*
- ART 220 - Monuments of Western Art I *Units: 3 ; G.E./G.R. Area: C1*
- ART 221 - Monuments of Western Art II *Units: 3 ; G.E./G.R. Area: C1*
- ART 225 - Art and Social Engagement *Units: 3 ; G.E./G.R. Area: C1; Social Justice*
- ART 226 - History of Graphic Design *Units: 3*
- ART 229 - Writing About Art and Design *Units: 3 ; G.E./G.R. Area: Writing II*
- ART 320 - Comparative World Art I *Units: 3 ; G.E./G.R. Area: C4*
- ART 323 - Modern Media, Art, and Culture I *Units: 3*
- ART 325 - Race and Representation in American Art *Units: 3 ; G.E./G.R. Area: C4; Diversity*
- ART 326 - Contemporary Visual Studies I *Units: 3*
- ART 327 - Cinema Art Studies *Units: 3 ; G.E./G.R. Area: C4*
- ART 420 - Comparative World Art II *Units: 3 ; G.E./G.R. Area: C4*
- ART 423 - Modern Media, Art and Culture II *Units: 3 ; G.E./G.R. Area: C4*
- ART 426 - Contemporary Visual Studies II *Units: 3 ; G.E./G.R. Area: C4*
- ART 493G - Art History and Visual Studies Senior Project *Units: 3*

Art: Studio

- ART 100 - Fundamentals of Drawing *Units: 3 ; G.E./G.R. Area: C1*
- ART 101 - Photography I *Units: 3 ; G.E./G.R. Area: C1*
- ART 102 - 2D Processes *Units: 3 ; G.E./G.R. Area: C1*
- ART 103 - 3D Processes *Units: 3 ; G.E./G.R. Area: C1*
- ART 104 - 4D Processes *Units: 3 ; G.E./G.R. Area: C1*
- ART 111 - Sculpture I *Units: 3 ; G.E./G.R. Area: C1*
- ART 115 - Ceramics I *Units: 3 ; G.E./G.R. Area: C1*

- ART 152 - Web Design I: Foundations *Units: 3*
- ART 172 - Painting I *Units: 3 ; G.E./G.R. Area: C1*
- ART 181 - Introduction to Transdisciplinary Art and Design *Units: 3 ; G.E./G.R. Area: C1*
- ART 211 - Sculpture II *Units: 3 ; G.E./G.R. Area: C1*
- ART 215 - Ceramics II *Units: 3 ; G.E./G.R. Area: C1*
- ART 230 - Graphic Arts *Units: 3*
- ART 240 - Photography II *Units: 3*
- ART 241 - 4D Project Development and Preproduction *Units: 3*
- ART 242 - Audio Production for Video and Animation *Units: 3 ; G.E./G.R. Area: C1*
- ART 243 - Video I *Units: 3*
- ART 244 - Animation I *Units: 3*
- ART 245 - Motion Graphics I *Units: 3*
- ART 246 - 3D Modeling and Animation I *Units: 3*
- ART 247 - Landscape Photography *Units: 3*
- ART 251 - Interaction and Experience Design Foundations *Units: 3*
- ART 255 - Game Design I *Units: 3 ; G.E./G.R. Area: C1*
- ART 259 - Interaction Design Studio I: Tools for Designers *Units: 3*
- ART 260 - Introduction to Illustration *Units: 3*
- ART 270 - Drawing II *Units: 3*
- ART 272 - Painting II *Units: 3*
- ART 274 - Figure Drawing I *Units: 3*
- ART 278 - Bookmaking I *Units: 3 ; G.E./G.R. Area: C1*
- ART 279 - Printmaking I *Units: 3 ; G.E./G.R. Area: C1*
- ART 310 - 3D Modeling and Fabrication *Units: 3*
- ART 311 - Sculpture III *Units: 3*
- ART 315 - Ceramics III *Units: 3*
- ART 330 - Typography I *Units: 3*
- ART 331 - Design Concepts and Narratives *Units: 3*
- ART 332 - Design for Production *Units: 3*
- ART 335 - Design Strategy and Collaborations *Units: 3*
- ART 336 - Information Design *Units: 3*
- ART 340A - Creative Photography I *Units: 3*
- ART 340B - Creative Photography II *Units: 3*
- ART 340C - Creative Photography III *Units: 3*
- ART 341 - Advanced Photography and Social Justice *Units: 3 ; G.E./G.R. Area: Social Justice*
- ART 343 - Video II *Units: 3*
- ART 344 - Animation II *Units: 3*
- ART 345 - Motion Graphics II *Units: 3*
- ART 346 - 3D Modeling and Animation II *Units: 3*
- ART 348A - Studio Lighting and Product Photography *Units: 3*
- ART 348B - Advanced Studio Lighting and Product Photography *Units: 3*
- ART 349A - Portrait Photography *Units: 3*
- ART 349B - Advanced Portrait Photography *Units: 3*
- ART 351 - User Experience Theory and Design *Units: 3*
- ART 352 - Web Design II: Screen Interactions *Units: 3*
- ART 355 - Game Design II *Units: 3*
- ART 356 - Interaction Design Studio II : Prototyping the Internet of Things *Units: 3*
- ART 357 - Interaction Design Studio III : Interactive Immersive Experiences *Units: 3*
- ART 361 - Color and Concept *Units: 3*
- ART 362 - Illustrating Dynamic Forms *Units: 3*
- ART 363 - Narrative Illustration *Units: 3*

- • ART 364 - Advanced Illustration *Units: 3*
- • ART 370 - Drawing III *Units: 3*
- • ART 378 - Bookmaking II *Units: 3*
- • ART 379 - Printmaking II *Units: 3*
- • ART 418 - Advanced 3D Practice *Units: 3*
- • ART 430 - Typography for Print and Interactive Publications *Units: 3*
- • ART 448 - Advanced 4D Projects *Units: 3*
- • ART 449 - Select Topics in Video Animation *Units: 3*
- • ART 452 - Web Design III: Design Evolution *Units: 3*
- • ART 455 - Game Development Team Project *Units: 3*
- • ART 457 - Interaction Design Studio IV : Speculative Interaction Research Lab *Units: 3*
- • ART 472 - Painting III *Units: 3*
- • ART 474 - Figure Drawing II *Units: 3*
- • ART 481 - Transdisciplinary Art and Design Seminar *Units: 3*
- • ART 485 - Transdisciplinary Art Laboratory *Units: 3*
- • ART 493A - Illustration Senior Project *Units: 3*
- • ART 493B - Interaction and Game Design Senior Project *Units: 3*
- • ART 493C - Photography Senior Project *Units: 3*
- • ART 493D - 3D Art & Design Senior Project *Units: 3*
- • ART 493E - Transdisciplinary Senior Project *Units: 3*
- • ART 493F - Video Animation Senior Project *Units: 3*
- • ART 493H - Fine Art Practice Senior Project *Units: 3*
- • ART 493I - Graphic Design Senior Project *Units: 3*
- • ART 496 - Special Topics *Units: 3*

Art, B.F.A.: Video & Animation Concentration

Art, B.F.A Program (127 units)

Program Description

The Art Department emphasizes study in our Bachelor of Fine Arts (B.F.A.) Program. This is a professional degree that offers students the opportunity to develop greater expertise through comprehensive and intensive study in a specific area of art or design - a program that leads to successful careers in the visual art and design industries. Students who intend to pursue graduate studies or advanced skills for a professional career typically choose the B.F.A degree.

The B.F.A. professional concentrations require 70 units of study in the Department to complete the major. There is no application procedure to enter the Bachelor of Fine Arts program beyond declaring as a B.F.A. student with a specific concentration. The concentrations are listed below under major requirements.

Career Opportunities

Graduates from the Bachelor of Fine Arts degree program go on to pursue careers as:

• User Experience (UX) Designer • Interaction Designer • Game Designer • Web Designer • User Interface (UI) Designer • User Experience (UX) Researcher • Level Designer • Product Designer • Creative Director • Information Designer/Information Architect • Fine Artist • Product Designer •

Architectural Model Maker • 3D Modeler for Film • Craft Artist • Secondary School Teacher • Computer Aided Designer (CAD) • Book Illustrator • Character Designer • Educational Illustrator • Matte Painter (Film and Game Industry) • Animator • Editorial Illustrator • Storyboard Artist • Advertising Illustrator • 3D Modeler • 3D Character Rigger • Digital Painter • Forensic Animator • Stop Motion Animator • Film / Video Editor • Video Production Crew • Motion Graphics Designer • 3D Character Animator • Effects Animator • Compositing Artist • Photo Journalist • Studio / Portrait Photographer • Stock Photographer • Fine Art Photographer • Event Photographer • Fashion Photographer • Commercial / Industrial Photographer • Graphic Designer • Multimedia / Content Developer • Publication Designer • Visual / Branding Designer • Creative Studio Manager • Studio Artist • Muralist • Set Painter/Designer • Production Assistant/Manager • Printmaker • Gallery Assistant • Arts Administrator • Assistant Conservator • Museum & Gallery Preparator • Sculptor • Ceramicist • Production Potter • Art Teacher/Instructor • Game Developer • Creative Technologist • Design Researcher • Wildcard Designer • Imagineer • Environment Designer • Portfolio Coordinator.

Program Learning Outcomes

Students who graduate with a Bachelor's of Fine Arts will be able to:

- Demonstrate mastery of appropriate art-making skills and tools.
- Imagine, ideate and create using an open, confident, and flexible method through creative processes and design thinking.
- Critique and think critically about art works using appropriate concepts from art history and theory, in the context of culture, contemporary art, and in public and global spheres.
- Communicate clearly and persuasively through their work.
- Integrate arts related skills in developing professional practices and planning for ethical, sustainable civic engagement.
- Formulate a plan to develop and maintain a professional creative practice.

Degree Requirements Unit-Outline

- A baccalaureate of fine arts degree requires a total of 127 units:
 - The major requirements consists of 70 units;
 - General Education (GE) & Graduation Requirements (GR) consists of 57 units;
 - Free Electives may consist of 0 units (*actual number of free elective units may depend on GE/GR units*).

Note: It may be possible to double-count units within the graduation requirements or that a course may satisfy both a graduation requirement and a major requirement. Students should contact their program and AACE advisors for information.

Art, B.F.A. Major Requirements (70 units)

Lower Division Foundation

18 units of lower-division required:

- ART 100 - Fundamentals of Drawing Units: 3 ; G.E./G.R. Area: C1
- ART 101 - Photography I Units: 3 ; G.E./G.R. Area: C1
- ART 102 - 2D Processes Units: 3 ; G.E./G.R. Area: C1
- ART 103 - 3D Processes Units: 3 ; G.E./G.R. Area: C1

- ART 104 - 4D Processes *Units: 3 ; G.E./G.R. Area: C1*
- ART 120 - Monuments of World Art *Units: 3 ; G.E./G.R. Area: C1*

Upper Division Foundation

The following 13 units of upper-division are required:

- ART 323 - Modern Media, Art, and Culture I *Units: 3*
- ART 326 - Contemporary Visual Studies I *Units: 3*
- ART 491 - BFA Critique *Units: 1 * BFA Critique is taken 4 times. (See Errata chapter for changes to these requirements)*
- ART 496 - Special Topics *Units: 3*

Plus:

One (1) upper-division Art History course for 3 units from the following:

- ART 420 - Comparative World Art II *Units: 3 ; G.E./G.R. Area: C4*
- ART 423 - Modern Media, Art and Culture II *Units: 3 ; G.E./G.R. Area: C4*
- ART 426 - Contemporary Visual Studies II *Units: 3 ; G.E./G.R. Area: C4*

Plus:

One (1) of the following Senior Project courses for 3 units as it matches the concentration:

- ART 493A - Illustration Senior Project *Units: 3*
- ART 493B - Interaction and Game Design Senior Project *Units: 3*
- ART 493C - Photography Senior Project *Units: 3*
- ART 493D - 3D Art & Design Senior Project *Units: 3*
- ART 493E - Transdisciplinary Senior Project *Units: 3*
- ART 493F - Video Animation Senior Project *Units: 3*
- ART 493H - Fine Art Practice Senior Project *Units: 3*
- ART 493I - Graphic Design Senior Project *Units: 3*

Concentrations

Students must choose at least one (1) of these concentrations for 33 units:

- Art, B.F.A.: 3D Art & Design Concentration
- Art, B.F.A.: Fine Arts Practice Concentration
- Art, B.F.A.: Graphic Design Concentration
- Art, B.F.A.: Illustration Concentration
- Art, B.F.A.: Interaction & Game Design Concentration
- Art, B.F.A.: Photography Concentration
- Art, B.F.A.: Transdisciplinary Arts Concentration
- Art, B.F.A.: Video & Animation Concentration

Video & Animation Concentration

Based on a broad range of critical, conceptual, and production courses in the Video and Animation concentration, students create artworks that give expression to their ideas while engaging their audiences

whether it is on monitors, theater screens, hand-held devices, or installations. Students' interests and films range from traditional to experimental, fictional to factual, and simply entertaining to highly conceptual. Upon graduation, students are prepared for further study in a graduate program or for entry into the work force.

Video and Animation Core

The following 24 units are required:

- ART 241 - 4D Project Development and Preproduction *Units: 3*
- ART 242 - Audio Production for Video and Animation *Units: 3 ; G.E./G.R. Area: C1*
- ART 243 - Video I *Units: 3*
- ART 244 - Animation I *Units: 3*
- ART 245 - Motion Graphics I *Units: 3*
- ART 246 - 3D Modeling and Animation I *Units: 3*
- ART 327 - Cinema Art Studies *Units: 3 ; G.E./G.R. Area: C4*
- ART 448 - Advanced 4D Projects *Units: 3*

Restricted Electives

Choose three (3) courses from the following for 9 units:

- ART 343 - Video II *Units: 3*
- ART 344 - Animation II *Units: 3*
- ART 345 - Motion Graphics II *Units: 3*
- ART 346 - 3D Modeling and Animation II *Units: 3*
- ART 449 - Select Topics in Video Animation *Units: 3*

Other Undergraduate Degree Requirements

In addition to major requirements, every student must also complete the University's baccalaureate requirements for graduation, which are described in the Requirements, Exams & Testing chapter of this catalog.

Department Courses Listed by Course Type

Art Courses

Department of Art

Go to information for this department.

Courses

Art

- ART 440 - Forum *Units: 1*
- ART 490 - Independent Study *Units: 1-3*
- ART 491 - BFA Critique *Units: 1*
- ART 498 - Internship *Units: 1-6*

Art: History

- ART 120 - Monuments of World Art *Units: 3 ; G.E./G.R. Area: C1*
- ART 124 - History of Animation *Units: 3 ; G.E./G.R. Area: C1*
- ART 127 - History of Play, Games, and Interactivity *Units: 3 ; G.E./G.R. Area: C1*
- ART 220 - Monuments of Western Art I *Units: 3 ; G.E./G.R. Area: C1*
- ART 221 - Monuments of Western Art II *Units: 3 ; G.E./G.R. Area: C1*
- ART 225 - Art and Social Engagement *Units: 3 ; G.E./G.R. Area: C1; Social Justice*
- ART 226 - History of Graphic Design *Units: 3*
- ART 229 - Writing About Art and Design *Units: 3 ; G.E./G.R. Area: Writing II*
- ART 320 - Comparative World Art I *Units: 3 ; G.E./G.R. Area: C4*
- ART 323 - Modern Media, Art, and Culture I *Units: 3*
- ART 325 - Race and Representation in American Art *Units: 3 ; G.E./G.R. Area: C4; Diversity*
- ART 326 - Contemporary Visual Studies I *Units: 3*
- ART 327 - Cinema Art Studies *Units: 3 ; G.E./G.R. Area: C4*
- ART 420 - Comparative World Art II *Units: 3 ; G.E./G.R. Area: C4*
- ART 423 - Modern Media, Art and Culture II *Units: 3 ; G.E./G.R. Area: C4*
- ART 426 - Contemporary Visual Studies II *Units: 3 ; G.E./G.R. Area: C4*
- ART 493G - Art History and Visual Studies Senior Project *Units: 3*

Art: Studio

- ART 100 - Fundamentals of Drawing *Units: 3 ; G.E./G.R. Area: C1*
- ART 101 - Photography I *Units: 3 ; G.E./G.R. Area: C1*
- ART 102 - 2D Processes *Units: 3 ; G.E./G.R. Area: C1*
- ART 103 - 3D Processes *Units: 3 ; G.E./G.R. Area: C1*
- ART 104 - 4D Processes *Units: 3 ; G.E./G.R. Area: C1*
- ART 111 - Sculpture I *Units: 3 ; G.E./G.R. Area: C1*
- ART 115 - Ceramics I *Units: 3 ; G.E./G.R. Area: C1*
- ART 152 - Web Design I: Foundations *Units: 3*
- ART 172 - Painting I *Units: 3 ; G.E./G.R. Area: C1*
- ART 181 - Introduction to Transdisciplinary Art and Design *Units: 3 ; G.E./G.R. Area: C1*
- ART 211 - Sculpture II *Units: 3 ; G.E./G.R. Area: C1*
- ART 215 - Ceramics II *Units: 3 ; G.E./G.R. Area: C1*
- ART 230 - Graphic Arts *Units: 3*
- ART 240 - Photography II *Units: 3*
- ART 241 - 4D Project Development and Preproduction *Units: 3*
- ART 242 - Audio Production for Video and Animation *Units: 3 ; G.E./G.R. Area: C1*
- ART 243 - Video I *Units: 3*
- ART 244 - Animation I *Units: 3*
- ART 245 - Motion Graphics I *Units: 3*
- ART 246 - 3D Modeling and Animation I *Units: 3*
- ART 247 - Landscape Photography *Units: 3*
- ART 251 - Interaction and Experience Design Foundations *Units: 3*
- ART 255 - Game Design I *Units: 3 ; G.E./G.R. Area: C1*
- ART 259 - Interaction Design Studio I: Tools for Designers *Units: 3*
- ART 260 - Introduction to Illustration *Units: 3*
- ART 270 - Drawing II *Units: 3*

- • ART 272 - Painting II *Units: 3*
- • ART 274 - Figure Drawing I *Units: 3*
- • ART 278 - Bookmaking I *Units: 3 ; G.E./G.R. Area: C1*
- • ART 279 - Printmaking I *Units: 3 ; G.E./G.R. Area: C1*
- • ART 310 - 3D Modeling and Fabrication *Units: 3*
- • ART 311 - Sculpture III *Units: 3*
- • ART 315 - Ceramics III *Units: 3*
- • ART 330 - Typography I *Units: 3*
- • ART 331 - Design Concepts and Narratives *Units: 3*
- • ART 332 - Design for Production *Units: 3*
- • ART 335 - Design Strategy and Collaborations *Units: 3*
- • ART 336 - Information Design *Units: 3*
- • ART 340A - Creative Photography I *Units: 3*
- • ART 340B - Creative Photography II *Units: 3*
- • ART 340C - Creative Photography III *Units: 3*
- • ART 341 - Advanced Photography and Social Justice *Units: 3 ; G.E./G.R. Area: Social Justice*
- • ART 343 - Video II *Units: 3*
- • ART 344 - Animation II *Units: 3*
- • ART 345 - Motion Graphics II *Units: 3*
- • ART 346 - 3D Modeling and Animation II *Units: 3*
- • ART 348A - Studio Lighting and Product Photography *Units: 3*
- • ART 348B - Advanced Studio Lighting and Product Photography *Units: 3*
- • ART 349A - Portrait Photography *Units: 3*
- • ART 349B - Advanced Portrait Photography *Units: 3*
- • ART 351 - User Experience Theory and Design *Units: 3*
- • ART 352 - Web Design II: Screen Interactions *Units: 3*
- • ART 355 - Game Design II *Units: 3*
- • ART 356 - Interaction Design Studio II : Prototyping the Internet of Things *Units: 3*
- • ART 357 - Interaction Design Studio III : Interactive Immersive Experiences *Units: 3*
- • ART 361 - Color and Concept *Units: 3*
- • ART 362 - Illustrating Dynamic Forms *Units: 3*
- • ART 363 - Narrative Illustration *Units: 3*
- • ART 364 - Advanced Illustration *Units: 3*
- • ART 370 - Drawing III *Units: 3*
- • ART 378 - Bookmaking II *Units: 3*
- • ART 379 - Printmaking II *Units: 3*
- • ART 418 - Advanced 3D Practice *Units: 3*
- • ART 430 - Typography for Print and Interactive Publications *Units: 3*
- • ART 448 - Advanced 4D Projects *Units: 3*
- • ART 449 - Select Topics in Video Animation *Units: 3*
- • ART 452 - Web Design III: Design Evolution *Units: 3*
- • ART 455 - Game Development Team Project *Units: 3*
- • ART 457 - Interaction Design Studio IV : Speculative Interaction Research Lab *Units: 3*
- • ART 472 - Painting III *Units: 3*
- • ART 474 - Figure Drawing II *Units: 3*
- • ART 481 - Transdisciplinary Art and Design Seminar *Units: 3*
- • ART 485 - Transdisciplinary Art Laboratory *Units: 3*
- • ART 493A - Illustration Senior Project *Units: 3*
- • ART 493B - Interaction and Game Design Senior Project *Units: 3*
- • ART 493C - Photography Senior Project *Units: 3*
- • ART 493D - 3D Art & Design Senior Project *Units: 3*

- ART 493E - Transdisciplinary Senior Project *Units: 3*
- ART 493F - Video Animation Senior Project *Units: 3*
- ART 493H - Fine Art Practice Senior Project *Units: 3*
- ART 493I - Graphic Design Senior Project *Units: 3*
- ART 496 - Special Topics *Units: 3*

Minor

3D Animation Minor

Minor Requirements (24 units)

3D Animation Core

Take the following 21 units:

- ART 100 - Fundamentals of Drawing *Units: 3 ; G.E./G.R. Area: C1*
- ART 101 - Photography I *Units: 3 ; G.E./G.R. Area: C1*
- ART 241 - 4D Project Development and Preproduction *Units: 3*
- ART 244 - Animation I *Units: 3*
- ART 246 - 3D Modeling and Animation I *Units: 3*
- ART 327 - Cinema Art Studies *Units: 3 ; G.E./G.R. Area: C4*
- ART 346 - 3D Modeling and Animation II *Units: 3*

Upper Division Elective

Choose one (1) course for 3 units from the following:

- ART 310 - 3D Modeling and Fabrication *Units: 3*
- ART 361 - Color and Concept *Units: 3*
- ART 363 - Narrative Illustration *Units: 3*
- ART 364 - Advanced Illustration *Units: 3*
- ART 370 - Drawing III *Units: 3*
- ART 448 - Advanced 4D Projects *Units: 3*
- ART 474 - Figure Drawing II *Units: 3*

Art History and Visual Studies Minor

Minor Requirements (24 units)

Art History and Visual Studies Core

Take the following 12 units:

- ART 101 - Photography I *Units: 3 ; G.E./G.R. Area: C1*

- ART 120 - Monuments of World Art *Units: 3 ; G.E./G.R. Area: C1*
- ART 323 - Modern Media, Art, and Culture I *Units: 3*
- ART 326 - Contemporary Visual Studies I *Units: 3*

Advanced Art History and Visual Studies Elective

Choose one (1) course for 3 units from the following:

- ART 420 - Comparative World Art II *Units: 3 ; G.E./G.R. Area: C4*
- ART 423 - Modern Media, Art and Culture II *Units: 3 ; G.E./G.R. Area: C4*
- ART 426 - Contemporary Visual Studies II *Units: 3 ; G.E./G.R. Area: C4*

Upper Division Interdisciplinary Elective

In consultation with your Art History Advisor, choose one (1) upper-division course for a minimum of 3 units from an appropriate department.

Upper Division Art Electives

In consultation with your Art History Advisor, choose two (2) upper-division ART courses for a minimum of 6 units.

Department Courses Listed by Course Type

Art Courses

Department of Art

Go to information for this department.

Courses

Art

- ART 440 - Forum *Units: 1*
- ART 490 - Independent Study *Units: 1-3*
- ART 491 - BFA Critique *Units: 1*
- ART 498 - Internship *Units: 1-6*

Art: History

- ART 120 - Monuments of World Art *Units: 3 ; G.E./G.R. Area: C1*
- ART 124 - History of Animation *Units: 3 ; G.E./G.R. Area: C1*
- ART 127 - History of Play, Games, and Interactivity *Units: 3 ; G.E./G.R. Area: C1*
- ART 220 - Monuments of Western Art I *Units: 3 ; G.E./G.R. Area: C1*
- ART 221 - Monuments of Western Art II *Units: 3 ; G.E./G.R. Area: C1*
- ART 225 - Art and Social Engagement *Units: 3 ; G.E./G.R. Area: C1; Social Justice*
- ART 226 - History of Graphic Design *Units: 3*
- ART 229 - Writing About Art and Design *Units: 3 ; G.E./G.R. Area: Writing II*

- ART 320 - Comparative World Art I *Units: 3 ; G.E./G.R. Area: C4*
- ART 323 - Modern Media, Art, and Culture I *Units: 3*
- ART 325 - Race and Representation in American Art *Units: 3 ; G.E./G.R. Area: C4; Diversity*
- ART 326 - Contemporary Visual Studies I *Units: 3*
- ART 327 - Cinema Art Studies *Units: 3 ; G.E./G.R. Area: C4*
- ART 420 - Comparative World Art II *Units: 3 ; G.E./G.R. Area: C4*
- ART 423 - Modern Media, Art and Culture II *Units: 3 ; G.E./G.R. Area: C4*
- ART 426 - Contemporary Visual Studies II *Units: 3 ; G.E./G.R. Area: C4*
- ART 493G - Art History and Visual Studies Senior Project *Units: 3*

Art: Studio

- ART 100 - Fundamentals of Drawing *Units: 3 ; G.E./G.R. Area: C1*
- ART 101 - Photography I *Units: 3 ; G.E./G.R. Area: C1*
- ART 102 - 2D Processes *Units: 3 ; G.E./G.R. Area: C1*
- ART 103 - 3D Processes *Units: 3 ; G.E./G.R. Area: C1*
- ART 104 - 4D Processes *Units: 3 ; G.E./G.R. Area: C1*
- ART 111 - Sculpture I *Units: 3 ; G.E./G.R. Area: C1*
- ART 115 - Ceramics I *Units: 3 ; G.E./G.R. Area: C1*
- ART 152 - Web Design I: Foundations *Units: 3*
- ART 172 - Painting I *Units: 3 ; G.E./G.R. Area: C1*
- ART 181 - Introduction to Transdisciplinary Art and Design *Units: 3 ; G.E./G.R. Area: C1*
- ART 211 - Sculpture II *Units: 3 ; G.E./G.R. Area: C1*
- ART 215 - Ceramics II *Units: 3 ; G.E./G.R. Area: C1*
- ART 230 - Graphic Arts *Units: 3*
- ART 240 - Photography II *Units: 3*
- ART 241 - 4D Project Development and Preproduction *Units: 3*
- ART 242 - Audio Production for Video and Animation *Units: 3 ; G.E./G.R. Area: C1*
- ART 243 - Video I *Units: 3*
- ART 244 - Animation I *Units: 3*
- ART 245 - Motion Graphics I *Units: 3*
- ART 246 - 3D Modeling and Animation I *Units: 3*
- ART 247 - Landscape Photography *Units: 3*
- ART 251 - Interaction and Experience Design Foundations *Units: 3*
- ART 255 - Game Design I *Units: 3 ; G.E./G.R. Area: C1*
- ART 259 - Interaction Design Studio I: Tools for Designers *Units: 3*
- ART 260 - Introduction to Illustration *Units: 3*
- ART 270 - Drawing II *Units: 3*
- ART 272 - Painting II *Units: 3*
- ART 274 - Figure Drawing I *Units: 3*
- ART 278 - Bookmaking I *Units: 3 ; G.E./G.R. Area: C1*
- ART 279 - Printmaking I *Units: 3 ; G.E./G.R. Area: C1*
- ART 310 - 3D Modeling and Fabrication *Units: 3*
- ART 311 - Sculpture III *Units: 3*
- ART 315 - Ceramics III *Units: 3*
- ART 330 - Typography I *Units: 3*
- ART 331 - Design Concepts and Narratives *Units: 3*
- ART 332 - Design for Production *Units: 3*
- ART 335 - Design Strategy and Collaborations *Units: 3*
- ART 336 - Information Design *Units: 3*
- ART 340A - Creative Photography I *Units: 3*
- ART 340B - Creative Photography II *Units: 3*

- • ART 340C - Creative Photography III *Units: 3*
- • ART 341 - Advanced Photography and Social Justice *Units: 3 ; G.E./G.R. Area: Social Justice*
- • ART 343 - Video II *Units: 3*
- • ART 344 - Animation II *Units: 3*
- • ART 345 - Motion Graphics II *Units: 3*
- • ART 346 - 3D Modeling and Animation II *Units: 3*
- • ART 348A - Studio Lighting and Product Photography *Units: 3*
- • ART 348B - Advanced Studio Lighting and Product Photography *Units: 3*
- • ART 349A - Portrait Photography *Units: 3*
- • ART 349B - Advanced Portrait Photography *Units: 3*
- • ART 351 - User Experience Theory and Design *Units: 3*
- • ART 352 - Web Design II: Screen Interactions *Units: 3*
- • ART 355 - Game Design II *Units: 3*
- • ART 356 - Interaction Design Studio II : Prototyping the Internet of Things *Units: 3*
- • ART 357 - Interaction Design Studio III : Interactive Immersive Experiences *Units: 3*
- • ART 361 - Color and Concept *Units: 3*
- • ART 362 - Illustrating Dynamic Forms *Units: 3*
- • ART 363 - Narrative Illustration *Units: 3*
- • ART 364 - Advanced Illustration *Units: 3*
- • ART 370 - Drawing III *Units: 3*
- • ART 378 - Bookmaking II *Units: 3*
- • ART 379 - Printmaking II *Units: 3*
- • ART 418 - Advanced 3D Practice *Units: 3*
- • ART 430 - Typography for Print and Interactive Publications *Units: 3*
- • ART 448 - Advanced 4D Projects *Units: 3*
- • ART 449 - Select Topics in Video Animation *Units: 3*
- • ART 452 - Web Design III: Design Evolution *Units: 3*
- • ART 455 - Game Development Team Project *Units: 3*
- • ART 457 - Interaction Design Studio IV : Speculative Interaction Research Lab *Units: 3*
- • ART 472 - Painting III *Units: 3*
- • ART 474 - Figure Drawing II *Units: 3*
- • ART 481 - Transdisciplinary Art and Design Seminar *Units: 3*
- • ART 485 - Transdisciplinary Art Laboratory *Units: 3*
- • ART 493A - Illustration Senior Project *Units: 3*
- • ART 493B - Interaction and Game Design Senior Project *Units: 3*
- • ART 493C - Photography Senior Project *Units: 3*
- • ART 493D - 3D Art & Design Senior Project *Units: 3*
- • ART 493E - Transdisciplinary Senior Project *Units: 3*
- • ART 493F - Video Animation Senior Project *Units: 3*
- • ART 493H - Fine Art Practice Senior Project *Units: 3*
- • ART 493I - Graphic Design Senior Project *Units: 3*
- • ART 496 - Special Topics *Units: 3*

Art Studio Minor

Minor Requirements (21 units)

Drawing Core

Take the following fundamentals course for 3 units:

- ART 100 - Fundamentals of Drawing *Units: 3 ; G.E./G.R. Area: C1*

Three-Course Sequence Electives

Choose one (1) of the sequence of coursework (I, II, III) as outlined below for 9 units:

- ART 111 - Sculpture I *Units: 3 ; G.E./G.R. Area: C1*
- ART 211 - Sculpture II *Units: 3 ; G.E./G.R. Area: C1*
- ART 311 - Sculpture III *Units: 3*

- ART 115 - Ceramics I *Units: 3 ; G.E./G.R. Area: C1*
- ART 215 - Ceramics II *Units: 3 ; G.E./G.R. Area: C1*
- ART 315 - Ceramics III *Units: 3*

- ART 172 - Painting I *Units: 3 ; G.E./G.R. Area: C1*
- ART 272 - Painting II *Units: 3*
- ART 472 - Painting III *Units: 3*

Two-Course Sequence Electives

Choose one (1) group of coursework as outlined below for 6 units:

- ART 270 - Drawing II *Units: 3*
- ART 370 - Drawing III *Units: 3*

- ART 274 - Figure Drawing I *Units: 3*
- ART 474 - Figure Drawing II *Units: 3*

- ART 278 - Bookmaking I *Units: 3 ; G.E./G.R. Area: C1*
- ART 378 - Bookmaking II *Units: 3*

- ART 279 - Printmaking I *Units: 3 ; G.E./G.R. Area: C1*
- ART 379 - Printmaking II *Units: 3*

ART History Elective

Take one (1) upper-division Art History course for a minimum of 3 units.

Department Courses Listed by Course Type

Art Courses

Department of Art

Go to information for this department.

Courses

Art

- ART 440 - Forum *Units: 1*
- ART 490 - Independent Study *Units: 1-3*
- ART 491 - BFA Critique *Units: 1*
- ART 498 - Internship *Units: 1-6*

Art: History

- ART 120 - Monuments of World Art *Units: 3 ; G.E./G.R. Area: C1*
- ART 124 - History of Animation *Units: 3 ; G.E./G.R. Area: C1*
- ART 127 - History of Play, Games, and Interactivity *Units: 3 ; G.E./G.R. Area: C1*
- ART 220 - Monuments of Western Art I *Units: 3 ; G.E./G.R. Area: C1*
- ART 221 - Monuments of Western Art II *Units: 3 ; G.E./G.R. Area: C1*
- ART 225 - Art and Social Engagement *Units: 3 ; G.E./G.R. Area: C1; Social Justice*
- ART 226 - History of Graphic Design *Units: 3*
- ART 229 - Writing About Art and Design *Units: 3 ; G.E./G.R. Area: Writing II*
- ART 320 - Comparative World Art I *Units: 3 ; G.E./G.R. Area: C4*
- ART 323 - Modern Media, Art, and Culture I *Units: 3*
- ART 325 - Race and Representation in American Art *Units: 3 ; G.E./G.R. Area: C4; Diversity*
- ART 326 - Contemporary Visual Studies I *Units: 3*
- ART 327 - Cinema Art Studies *Units: 3 ; G.E./G.R. Area: C4*
- ART 420 - Comparative World Art II *Units: 3 ; G.E./G.R. Area: C4*
- ART 423 - Modern Media, Art and Culture II *Units: 3 ; G.E./G.R. Area: C4*
- ART 426 - Contemporary Visual Studies II *Units: 3 ; G.E./G.R. Area: C4*
- ART 493G - Art History and Visual Studies Senior Project *Units: 3*

Art: Studio

- ART 100 - Fundamentals of Drawing *Units: 3 ; G.E./G.R. Area: C1*
- ART 101 - Photography I *Units: 3 ; G.E./G.R. Area: C1*
- ART 102 - 2D Processes *Units: 3 ; G.E./G.R. Area: C1*
- ART 103 - 3D Processes *Units: 3 ; G.E./G.R. Area: C1*
- ART 104 - 4D Processes *Units: 3 ; G.E./G.R. Area: C1*
- ART 111 - Sculpture I *Units: 3 ; G.E./G.R. Area: C1*
- ART 115 - Ceramics I *Units: 3 ; G.E./G.R. Area: C1*
- ART 152 - Web Design I: Foundations *Units: 3*
- ART 172 - Painting I *Units: 3 ; G.E./G.R. Area: C1*
- ART 181 - Introduction to Transdisciplinary Art and Design *Units: 3 ; G.E./G.R. Area: C1*
- ART 211 - Sculpture II *Units: 3 ; G.E./G.R. Area: C1*
- ART 215 - Ceramics II *Units: 3 ; G.E./G.R. Area: C1*
- ART 230 - Graphic Arts *Units: 3*
- ART 240 - Photography II *Units: 3*
- ART 241 - 4D Project Development and Preproduction *Units: 3*
- ART 242 - Audio Production for Video and Animation *Units: 3 ; G.E./G.R. Area: C1*
- ART 243 - Video I *Units: 3*
- ART 244 - Animation I *Units: 3*
- ART 245 - Motion Graphics I *Units: 3*
- ART 246 - 3D Modeling and Animation I *Units: 3*

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- ART 247 - Landscape Photography *Units: 3*
-
- ART 251 - Interaction and Experience Design Foundations *Units: 3*
-
- ART 255 - Game Design I *Units: 3 ; G.E./G.R. Area: C1*
-
- ART 259 - Interaction Design Studio I: Tools for Designers *Units: 3*
-
- ART 260 - Introduction to Illustration *Units: 3*
-
- ART 270 - Drawing II *Units: 3*
-
- ART 272 - Painting II *Units: 3*
-
- ART 274 - Figure Drawing I *Units: 3*
-
- ART 278 - Bookmaking I *Units: 3 ; G.E./G.R. Area: C1*
-
- ART 279 - Printmaking I *Units: 3 ; G.E./G.R. Area: C1*
-
- ART 310 - 3D Modeling and Fabrication *Units: 3*
-
- ART 311 - Sculpture III *Units: 3*
-
- ART 315 - Ceramics III *Units: 3*
-
- ART 330 - Typography I *Units: 3*
-
- ART 331 - Design Concepts and Narratives *Units: 3*
-
- ART 332 - Design for Production *Units: 3*
-
- ART 335 - Design Strategy and Collaborations *Units: 3*
-
- ART 336 - Information Design *Units: 3*
-
- ART 340A - Creative Photography I *Units: 3*
-
- ART 340B - Creative Photography II *Units: 3*
-
- ART 340C - Creative Photography III *Units: 3*
-
- ART 341 - Advanced Photography and Social Justice *Units: 3 ; G.E./G.R. Area: Social Justice*
-
- ART 343 - Video II *Units: 3*
-
- ART 344 - Animation II *Units: 3*
-
- ART 345 - Motion Graphics II *Units: 3*
-
- ART 346 - 3D Modeling and Animation II *Units: 3*
-
- ART 348A - Studio Lighting and Product Photography *Units: 3*
-
- ART 348B - Advanced Studio Lighting and Product Photography *Units: 3*
-
- ART 349A - Portrait Photography *Units: 3*
-
- ART 349B - Advanced Portrait Photography *Units: 3*
-
- ART 351 - User Experience Theory and Design *Units: 3*
-
- ART 352 - Web Design II: Screen Interactions *Units: 3*
-
- ART 355 - Game Design II *Units: 3*
-
- ART 356 - Interaction Design Studio II : Prototyping the Internet of Things *Units: 3*
-
- ART 357 - Interaction Design Studio III : Interactive Immersive Experiences *Units: 3*
-
- ART 361 - Color and Concept *Units: 3*
-
- ART 362 - Illustrating Dynamic Forms *Units: 3*
-
- ART 363 - Narrative Illustration *Units: 3*
-
- ART 364 - Advanced Illustration *Units: 3*
-
- ART 370 - Drawing III *Units: 3*
-
- ART 378 - Bookmaking II *Units: 3*
-
- ART 379 - Printmaking II *Units: 3*
-
- ART 418 - Advanced 3D Practice *Units: 3*
-
- ART 430 - Typography for Print and Interactive Publications *Units: 3*
-
- ART 448 - Advanced 4D Projects *Units: 3*
-
- ART 449 - Select Topics in Video Animation *Units: 3*
-
- ART 452 - Web Design III: Design Evolution *Units: 3*
-
- ART 455 - Game Development Team Project *Units: 3*
-
- ART 457 - Interaction Design Studio IV : Speculative Interaction Research Lab *Units: 3*
-
- ART 472 - Painting III *Units: 3*
-
- ART 474 - Figure Drawing II *Units: 3*

- ART 481 - Transdisciplinary Art and Design Seminar *Units: 3*
- ART 485 - Transdisciplinary Art Laboratory *Units: 3*
- ART 493A - Illustration Senior Project *Units: 3*
- ART 493B - Interaction and Game Design Senior Project *Units: 3*
- ART 493C - Photography Senior Project *Units: 3*
- ART 493D - 3D Art & Design Senior Project *Units: 3*
- ART 493E - Transdisciplinary Senior Project *Units: 3*
- ART 493F - Video Animation Senior Project *Units: 3*
- ART 493H - Fine Art Practice Senior Project *Units: 3*
- ART 493I - Graphic Design Senior Project *Units: 3*
- ART 496 - Special Topics *Units: 3*

Game Design Minor

Minor Requirements (24-27 units)

Game Design Lower Division Core

Take the following 9 units:

- ART 104 - 4D Processes *Units: 3 ; G.E./G.R. Area: C1*
- ART 127 - History of Play, Games, and Interactivity *Units: 3 ; G.E./G.R. Area: C1*
- ART 255 - Game Design I *Units: 3 ; G.E./G.R. Area: C1*

Game Design Upper Division Core

Take the following 6 units:

- ART 323 - Modern Media, Art, and Culture I *Units: 3*
- ART 355 - Game Design II *Units: 3*

Game Design Coding Electives

Choose 3-6 units from the following:

- ART 259 - Interaction Design Studio I: Tools for Designers *Units: 3*
- CS 100 - Programming for Everyone *Units: 3*
- CS 101 - Computer Science I *Units: 4*
- CS 200 - Advanced Programming for Everyone *Units: 3*

Game Design Electives

Choose two (2) courses for 6 units from the following:

- ART 251 - Interaction and Experience Design Foundations *Units: 3*
- ART 351 - User Experience Theory and Design *Units: 3*

- ART 356 - Interaction Design Studio II : Prototyping the Internet of Things
Units: 3
- ART 455 - Game Development Team Project *Units: 3*

Department Courses Listed by Course Type

Art Courses

Department of Art

Go to information for this department.

Courses

Art

- ART 440 - Forum *Units: 1*
- ART 490 - Independent Study *Units: 1-3*
- ART 491 - BFA Critique *Units: 1*
- ART 498 - Internship *Units: 1-6*

Art: History

- ART 120 - Monuments of World Art *Units: 3 ; G.E./G.R. Area: C1*
- ART 124 - History of Animation *Units: 3 ; G.E./G.R. Area: C1*
- ART 127 - History of Play, Games, and Interactivity *Units: 3 ; G.E./G.R. Area: C1*
- ART 220 - Monuments of Western Art I *Units: 3 ; G.E./G.R. Area: C1*
- ART 221 - Monuments of Western Art II *Units: 3 ; G.E./G.R. Area: C1*
- ART 225 - Art and Social Engagement *Units: 3 ; G.E./G.R. Area: C1; Social Justice*
- ART 226 - History of Graphic Design *Units: 3*
- ART 229 - Writing About Art and Design *Units: 3 ; G.E./G.R. Area: Writing II*
- ART 320 - Comparative World Art I *Units: 3 ; G.E./G.R. Area: C4*
- ART 323 - Modern Media, Art, and Culture I *Units: 3*
- ART 325 - Race and Representation in American Art *Units: 3 ; G.E./G.R. Area: C4; Diversity*
- ART 326 - Contemporary Visual Studies I *Units: 3*
- ART 327 - Cinema Art Studies *Units: 3 ; G.E./G.R. Area: C4*
- ART 420 - Comparative World Art II *Units: 3 ; G.E./G.R. Area: C4*
- ART 423 - Modern Media, Art and Culture II *Units: 3 ; G.E./G.R. Area: C4*
- ART 426 - Contemporary Visual Studies II *Units: 3 ; G.E./G.R. Area: C4*
- ART 493G - Art History and Visual Studies Senior Project *Units: 3*

Art: Studio

- ART 100 - Fundamentals of Drawing *Units: 3 ; G.E./G.R. Area: C1*
- ART 101 - Photography I *Units: 3 ; G.E./G.R. Area: C1*
- ART 102 - 2D Processes *Units: 3 ; G.E./G.R. Area: C1*
- ART 103 - 3D Processes *Units: 3 ; G.E./G.R. Area: C1*
- ART 104 - 4D Processes *Units: 3 ; G.E./G.R. Area: C1*
- ART 111 - Sculpture I *Units: 3 ; G.E./G.R. Area: C1*
- ART 115 - Ceramics I *Units: 3 ; G.E./G.R. Area: C1*
- ART 152 - Web Design I: Foundations *Units: 3*
- ART 172 - Painting I *Units: 3 ; G.E./G.R. Area: C1*

- • ART 181 - Introduction to Transdisciplinary Art and Design *Units: 3 ; G.E./G.R. Area: C1*
- • ART 211 - Sculpture II *Units: 3 ; G.E./G.R. Area: C1*
- • ART 215 - Ceramics II *Units: 3 ; G.E./G.R. Area: C1*
- • ART 230 - Graphic Arts *Units: 3*
- • ART 240 - Photography II *Units: 3*
- • ART 241 - 4D Project Development and Preproduction *Units: 3*
- • ART 242 - Audio Production for Video and Animation *Units: 3 ; G.E./G.R. Area: C1*
- • ART 243 - Video I *Units: 3*
- • ART 244 - Animation I *Units: 3*
- • ART 245 - Motion Graphics I *Units: 3*
- • ART 246 - 3D Modeling and Animation I *Units: 3*
- • ART 247 - Landscape Photography *Units: 3*
- • ART 251 - Interaction and Experience Design Foundations *Units: 3*
- • ART 255 - Game Design I *Units: 3 ; G.E./G.R. Area: C1*
- • ART 259 - Interaction Design Studio I: Tools for Designers *Units: 3*
- • ART 260 - Introduction to Illustration *Units: 3*
- • ART 270 - Drawing II *Units: 3*
- • ART 272 - Painting II *Units: 3*
- • ART 274 - Figure Drawing I *Units: 3*
- • ART 278 - Bookmaking I *Units: 3 ; G.E./G.R. Area: C1*
- • ART 279 - Printmaking I *Units: 3 ; G.E./G.R. Area: C1*
- • ART 310 - 3D Modeling and Fabrication *Units: 3*
- • ART 311 - Sculpture III *Units: 3*
- • ART 315 - Ceramics III *Units: 3*
- • ART 330 - Typography I *Units: 3*
- • ART 331 - Design Concepts and Narratives *Units: 3*
- • ART 332 - Design for Production *Units: 3*
- • ART 335 - Design Strategy and Collaborations *Units: 3*
- • ART 336 - Information Design *Units: 3*
- • ART 340A - Creative Photography I *Units: 3*
- • ART 340B - Creative Photography II *Units: 3*
- • ART 340C - Creative Photography III *Units: 3*
- • ART 341 - Advanced Photography and Social Justice *Units: 3 ; G.E./G.R. Area: Social Justice*
- • ART 343 - Video II *Units: 3*
- • ART 344 - Animation II *Units: 3*
- • ART 345 - Motion Graphics II *Units: 3*
- • ART 346 - 3D Modeling and Animation II *Units: 3*
- • ART 348A - Studio Lighting and Product Photography *Units: 3*
- • ART 348B - Advanced Studio Lighting and Product Photography *Units: 3*
- • ART 349A - Portrait Photography *Units: 3*
- • ART 349B - Advanced Portrait Photography *Units: 3*
- • ART 351 - User Experience Theory and Design *Units: 3*
- • ART 352 - Web Design II: Screen Interactions *Units: 3*
- • ART 355 - Game Design II *Units: 3*
- • ART 356 - Interaction Design Studio II : Prototyping the Internet of Things *Units: 3*
- • ART 357 - Interaction Design Studio III : Interactive Immersive Experiences *Units: 3*
- • ART 361 - Color and Concept *Units: 3*
- • ART 362 - Illustrating Dynamic Forms *Units: 3*
- • ART 363 - Narrative Illustration *Units: 3*
- • ART 364 - Advanced Illustration *Units: 3*
- • ART 370 - Drawing III *Units: 3*

- ART 378 - Bookmaking II *Units: 3*
- ART 379 - Printmaking II *Units: 3*
- ART 418 - Advanced 3D Practice *Units: 3*
- ART 430 - Typography for Print and Interactive Publications *Units: 3*
- ART 448 - Advanced 4D Projects *Units: 3*
- ART 449 - Select Topics in Video Animation *Units: 3*
- ART 452 - Web Design III: Design Evolution *Units: 3*
- ART 455 - Game Development Team Project *Units: 3*
- ART 457 - Interaction Design Studio IV : Speculative Interaction Research Lab *Units: 3*
- ART 472 - Painting III *Units: 3*
- ART 474 - Figure Drawing II *Units: 3*
- ART 481 - Transdisciplinary Art and Design Seminar *Units: 3*
- ART 485 - Transdisciplinary Art Laboratory *Units: 3*
- ART 493A - Illustration Senior Project *Units: 3*
- ART 493B - Interaction and Game Design Senior Project *Units: 3*
- ART 493C - Photography Senior Project *Units: 3*
- ART 493D - 3D Art & Design Senior Project *Units: 3*
- ART 493E - Transdisciplinary Senior Project *Units: 3*
- ART 493F - Video Animation Senior Project *Units: 3*
- ART 493H - Fine Art Practice Senior Project *Units: 3*
- ART 493I - Graphic Design Senior Project *Units: 3*
- ART 496 - Special Topics *Units: 3*

Photography Minor

Minor Requirements (21 units)

Photography Minor Core

Take the following 12 units:

- ART 101 - Photography I *Units: 3 ; G.E./G.R. Area: C1*
- ART 240 - Photography II *Units: 3*
- ART 247 - Landscape Photography *Units: 3*
- ART 323 - Modern Media, Art, and Culture I *Units: 3*

Photography Minor Electives

Take three (3) courses for 9 units from the following:

- ART 340A - Creative Photography I *Units: 3*
- ART 340B - Creative Photography II *Units: 3*
- ART 340C - Creative Photography III *Units: 3*
- ART 341 - Advanced Photography and Social Justice *Units: 3 ; G.E./G.R. Area: Social Justice*
- ART 348A - Studio Lighting and Product Photography *Units: 3*
- ART 348B - Advanced Studio Lighting and Product Photography *Units: 3*
- ART 349A - Portrait Photography *Units: 3*

- ART 349B - Advanced Portrait Photography *Units: 3*

Department Courses Listed by Course Type

Art Courses

Department of Art

Go to information for this department.

Courses

Art

- ART 440 - Forum *Units: 1*
- ART 490 - Independent Study *Units: 1-3*
- ART 491 - BFA Critique *Units: 1*
- ART 498 - Internship *Units: 1-6*

Art: History

- ART 120 - Monuments of World Art *Units: 3 ; G.E./G.R. Area: C1*
- ART 124 - History of Animation *Units: 3 ; G.E./G.R. Area: C1*
- ART 127 - History of Play, Games, and Interactivity *Units: 3 ; G.E./G.R. Area: C1*
- ART 220 - Monuments of Western Art I *Units: 3 ; G.E./G.R. Area: C1*
- ART 221 - Monuments of Western Art II *Units: 3 ; G.E./G.R. Area: C1*
- ART 225 - Art and Social Engagement *Units: 3 ; G.E./G.R. Area: C1; Social Justice*
- ART 226 - History of Graphic Design *Units: 3*
- ART 229 - Writing About Art and Design *Units: 3 ; G.E./G.R. Area: Writing II*
- ART 320 - Comparative World Art I *Units: 3 ; G.E./G.R. Area: C4*
- ART 323 - Modern Media, Art, and Culture I *Units: 3*
- ART 325 - Race and Representation in American Art *Units: 3 ; G.E./G.R. Area: C4; Diversity*
- ART 326 - Contemporary Visual Studies I *Units: 3*
- ART 327 - Cinema Art Studies *Units: 3 ; G.E./G.R. Area: C4*
- ART 420 - Comparative World Art II *Units: 3 ; G.E./G.R. Area: C4*
- ART 423 - Modern Media, Art and Culture II *Units: 3 ; G.E./G.R. Area: C4*
- ART 426 - Contemporary Visual Studies II *Units: 3 ; G.E./G.R. Area: C4*
- ART 493G - Art History and Visual Studies Senior Project *Units: 3*

Art: Studio

- ART 100 - Fundamentals of Drawing *Units: 3 ; G.E./G.R. Area: C1*
- ART 101 - Photography I *Units: 3 ; G.E./G.R. Area: C1*
- ART 102 - 2D Processes *Units: 3 ; G.E./G.R. Area: C1*
- ART 103 - 3D Processes *Units: 3 ; G.E./G.R. Area: C1*
- ART 104 - 4D Processes *Units: 3 ; G.E./G.R. Area: C1*
- ART 111 - Sculpture I *Units: 3 ; G.E./G.R. Area: C1*
- ART 115 - Ceramics I *Units: 3 ; G.E./G.R. Area: C1*
- ART 152 - Web Design I: Foundations *Units: 3*
- ART 172 - Painting I *Units: 3 ; G.E./G.R. Area: C1*
- ART 181 - Introduction to Transdisciplinary Art and Design *Units: 3 ; G.E./G.R. Area: C1*
- ART 211 - Sculpture II *Units: 3 ; G.E./G.R. Area: C1*

- ART 215 - Ceramics II *Units: 3 ; G.E./G.R. Area: C1*
- ART 230 - Graphic Arts *Units: 3*
- ART 240 - Photography II *Units: 3*
- ART 241 - 4D Project Development and Preproduction *Units: 3*
- ART 242 - Audio Production for Video and Animation *Units: 3 ; G.E./G.R. Area: C1*
- ART 243 - Video I *Units: 3*
- ART 244 - Animation I *Units: 3*
- ART 245 - Motion Graphics I *Units: 3*
- ART 246 - 3D Modeling and Animation I *Units: 3*
- ART 247 - Landscape Photography *Units: 3*
- ART 251 - Interaction and Experience Design Foundations *Units: 3*
- ART 255 - Game Design I *Units: 3 ; G.E./G.R. Area: C1*
- ART 259 - Interaction Design Studio I: Tools for Designers *Units: 3*
- ART 260 - Introduction to Illustration *Units: 3*
- ART 270 - Drawing II *Units: 3*
- ART 272 - Painting II *Units: 3*
- ART 274 - Figure Drawing I *Units: 3*
- ART 278 - Bookmaking I *Units: 3 ; G.E./G.R. Area: C1*
- ART 279 - Printmaking I *Units: 3 ; G.E./G.R. Area: C1*
- ART 310 - 3D Modeling and Fabrication *Units: 3*
- ART 311 - Sculpture III *Units: 3*
- ART 315 - Ceramics III *Units: 3*
- ART 330 - Typography I *Units: 3*
- ART 331 - Design Concepts and Narratives *Units: 3*
- ART 332 - Design for Production *Units: 3*
- ART 335 - Design Strategy and Collaborations *Units: 3*
- ART 336 - Information Design *Units: 3*
- ART 340A - Creative Photography I *Units: 3*
- ART 340B - Creative Photography II *Units: 3*
- ART 340C - Creative Photography III *Units: 3*
- ART 341 - Advanced Photography and Social Justice *Units: 3 ; G.E./G.R. Area: Social Justice*
- ART 343 - Video II *Units: 3*
- ART 344 - Animation II *Units: 3*
- ART 345 - Motion Graphics II *Units: 3*
- ART 346 - 3D Modeling and Animation II *Units: 3*
- ART 348A - Studio Lighting and Product Photography *Units: 3*
- ART 348B - Advanced Studio Lighting and Product Photography *Units: 3*
- ART 349A - Portrait Photography *Units: 3*
- ART 349B - Advanced Portrait Photography *Units: 3*
- ART 351 - User Experience Theory and Design *Units: 3*
- ART 352 - Web Design II: Screen Interactions *Units: 3*
- ART 355 - Game Design II *Units: 3*
- ART 356 - Interaction Design Studio II : Prototyping the Internet of Things *Units: 3*
- ART 357 - Interaction Design Studio III : Interactive Immersive Experiences *Units: 3*
- ART 361 - Color and Concept *Units: 3*
- ART 362 - Illustrating Dynamic Forms *Units: 3*
- ART 363 - Narrative Illustration *Units: 3*
- ART 364 - Advanced Illustration *Units: 3*
- ART 370 - Drawing III *Units: 3*
- ART 378 - Bookmaking II *Units: 3*
- ART 379 - Printmaking II *Units: 3*

- • ART 418 - Advanced 3D Practice *Units: 3*
- • ART 430 - Typography for Print and Interactive Publications *Units: 3*
- • ART 448 - Advanced 4D Projects *Units: 3*
- • ART 449 - Select Topics in Video Animation *Units: 3*
- • ART 452 - Web Design III: Design Evolution *Units: 3*
- • ART 455 - Game Development Team Project *Units: 3*
- • ART 457 - Interaction Design Studio IV : Speculative Interaction Research Lab *Units: 3*
- • ART 472 - Painting III *Units: 3*
- • ART 474 - Figure Drawing II *Units: 3*
- • ART 481 - Transdisciplinary Art and Design Seminar *Units: 3*
- • ART 485 - Transdisciplinary Art Laboratory *Units: 3*
- • ART 493A - Illustration Senior Project *Units: 3*
- • ART 493B - Interaction and Game Design Senior Project *Units: 3*
- • ART 493C - Photography Senior Project *Units: 3*
- • ART 493D - 3D Art & Design Senior Project *Units: 3*
- • ART 493E - Transdisciplinary Senior Project *Units: 3*
- • ART 493F - Video Animation Senior Project *Units: 3*
- • ART 493H - Fine Art Practice Senior Project *Units: 3*
- • ART 493I - Graphic Design Senior Project *Units: 3*
- • ART 496 - Special Topics *Units: 3*

Department of Biological Sciences

The Department Office is located on the 4th Floor of the North Science building, Room 429.

Open 8:00 a.m. - 6:00 p.m., Monday - Friday.

Dept. Phone: (510) 885-3471

Faculty

Professor Emeritus

Donald A. Gailey, Ph.D. University of California, Los Angeles

Professors

Christoph W. Baysdorfer, Ph.D. University of California, Berkeley

Michael S. Hedrick, Ph.D. University of British Columbia (Canada)

Caron Y. Inouye, Ph.D. University of California, Los Angeles

Christopher L. Kitting, Ph.D. Stanford University

Carol R. Lauzon, Ph.D. University of Vermont

Maria C. Nieto, Ph.D. University of California, Berkeley

Claudia Uhde-Stone, Ph.D. University of Bielefeld (Germany)

Associate Professors

Tyler Evans, Ph.D. University of Saskatchewan (Canada)

Maria E. Gallegos, Ph.D. University of Wisconsin, Madison

Kenneth Curr, Ph.D. Albert Einstein College of Medicine, New York

James Murray, Ph.D. University of Washington

Brian Perry (Chair), Ph.D. Harvard University

Erica L. Wildy, Ph.D. Oregon State University

Assistant Professors

Ana Maria Almeida, Ph.D. University of California, Berkeley

Pascale Guiton, Ph.D. Washington University in St. Louis

Nazzy Pakpour, Ph.D. University of Pennsylvania

Graduate Coordinator: Maria Gallegos

Mission Statement

The mission of the Department of Biological Sciences is to provide students with the most current biological information possible coupled with extensive laboratory and field experiences. An educated and trained biologist contributes to society and returns this knowledge to the community. A diversity of courses featuring laboratory and field work supports professional specialization in a broad spectrum of disciplines within the life sciences. The degree programs are designed for students with specific career objectives in laboratory, administrative, or field settings, and for students who may seek further graduate training or preparation for careers in health professions or teaching.

About the Department

Use our university website link to learn more about what the Biological Sciences Department has to offer.

- [Advising & Resources](#)
- [Degree Roadmaps](#)
- [Volunteer Opportunities](#)
- [News & Events](#)
- [Natural History Collections](#)
- [Cleary Reserve](#)
- [East Bay Regional Parks](#)
- [Moss Landing Marine Laboratories](#)
- [Department News](#)

- The S.U.C.C.E.S.S. Program
- And more...

Bachelor

Biological Sciences, B.A.: Biology Education Concentration

Biological Science, B.A. Program (120 units)

Program Description

Biology is concerned with living matter in all its forms, responses, and interactions. It deals with the study of anything that has been or is alive: microbes, fungi, plants, "protists" and all animals, including humans. The science of biology includes a large number of highly integrated sub-disciplines such as microbiology, genetics, molecular biology, ecology, evolutionary biology, physiology, systematics, and behavior. Biologists must draw upon a wide variety of academic disciplines to make observations and form conclusions, and well-trained biologists have solid backgrounds in chemistry, mathematics, computer science, statistics, physics, and the humanities, as required by graduate programs and professional schools, to meet the demands of professions in the life sciences.

The Department of Biological Sciences offers a diversified curriculum in the life sciences. Courses are designed for biology majors with specific degree objectives, for students seeking applied technical training, and for non-major students with general interest in biological subjects. Undergraduate programs will prepare students for both graduate work and for a diversity of careers. Biology majors may enter specialized or general careers in life science and find themselves working in laboratories, offices, the field, administrative posts, academic institutions, industry, government agencies, private foundations, botanic gardens, wildlife preserves and zoos. Simply put, biologists study the living planet.

Program Learning Outcomes

Students graduating with a B.A. in Biological Science from Cal State East Bay will be able to:

1. Explain core biological concepts, including evolutionary processes, structure-function relationships across all levels of biological organization, homeostasis, information flow, matter and energy transformations, and the interactions and interconnectedness of living systems.
2. Apply quantitative reasoning to explain biological phenomena and to address biological problems.
3. Clearly communicate biological information in a variety of formats (written, oral, visual), particularly to an audience of learners at the K-12 levels.
4. Create and implement inquiry-based activities/lessons that allow learners to develop and apply their understanding of scientific concepts and the scientific method.
5. Construct scientific claims, arguments, and conclusions based on evidence drawn from published scientific information from reliable sources.

Career Opportunities

A degree in biological science can lead to many exciting career opportunities including: • Biotechnologist
• Health Professional such as Medical Doctor, Dentist, Ophthalmologist, Veterinarian, and Pharmacist •

Environmental Scientist • Biology Researcher • Environmental Toxicologist • Forensic Scientist • Clinical Lab Scientist • Biology Teacher/Science Educator • College Instructor • Marine Biologist • Physical Therapist • Food Scientist • Radiation Therapy Technologist • Dietician • Science Editor • Medical Illustrator • Horticulturalist • Emergency Medical Technician • Mortician • Medical Technologist • Drug Inspector.

Features

Classes are offered on the Hayward campus in well-equipped facilities, at the Moss Landing Marine Laboratories located in Monterey Bay (via participation in a CSU Consortium which allows degree credit for MLML course), and at field locations such as Garin Reserve adjacent to campus.

A concentration in Microbiology and Biomedical Laboratory Sciences is offered to qualify students for California hospital traineeships which lead to state licensing as medical technologists and clinical lab scientists.

Preparation

A student who has successfully completed an advanced placement course in biology in high school and has earned a score of "3," "4" or "5" on the Advanced Placement Examination will be granted the following course credit:

- Score of 3, credit for non-majors introductory biology and lab (BIOL 100 or BIOL 101+102).
- Score of 4, credit for BIOL 140B only.
- Score of 5, credit for BIOL 140A and BIOL 140B.

Note: students earning a score of "3" or better on the AP Biology Exam will earn no more than 6 semester units toward the degree and will have satisfied GE Areas B2 and B3.

Prerequisite courses for all Biology courses must be passed with a grade of "C-" or better. All requests for Grade Forgiveness are subject to space availability, with priority given to newly enrolled students.

Bachelor's Degree Requirements

The B.A. degree in Biological Science is offered with a single concentration in Biology Education.

Degree Requirements Unit-Outline

- A baccalaureate of arts degree requires a total of 120 units:
 - The major requirements consists of 77-78 units;
 - General Education & Graduation Requirements consists of 57 units;
 - Free Electives may consist of 0 units (*actual number of free elective units may depend on GE/GR units*).

Note: It may be possible to double-count units within the graduation requirements or that a course may satisfy both a graduation requirement and a major requirement. Students should contact their program and AACE advisors for information.

Biological Science (B.A.) Major Requirements (77-78 units)

Lower Division Coursework

The following 38 units of interdisciplinary coursework is required:

- BIOL 140A - Principles of Cell and Molecular Biology Units: 5 ; G.E./G.R. Area: B2, B3
- BIOL 140B - Principles of Organismal Biology Units: 5
- CHEM 111 - General Chemistry I Units: 5 ; G.E./G.R. Area: B1, B3
- CHEM 112 - General Chemistry II Units: 5
- CHEM 230 - Survey of Organic Chemistry Units: 5
- GEOL 100 - Earth Systems Science Units: 4 ; G.E./G.R. Area: B1, B3; Sustainability
- MATH 115 - College Algebra Units: 3 ; G.E./G.R. Area: B4
- MATH 120 - Precalculus Units: 3 ; G.E./G.R. Area: B4
- PHYS 115 - Elementary Physics Units: 3 ; G.E./G.R. Area: B1, B3

Upper Division Coursework

20 units of upper-division BIOL coursework is required:

- BIOL 310 - Genetic Analysis I Units: 4
- BIOL 320 - Evolutionary Biology Units: 3
- BIOL 330 - General Microbiology Units: 5
- BIOL 350 - Ecology Units: 4
- BIOL 370 - Animal Physiology Units: 4

Elective Courses

Choose an additional 6 units of upper division BIOL (300 & 400-level courses) as electives. *Note: A maximum of 2 units of independent study can count toward the 6 units.*

Biology Education Concentration

Teacher Education and Statistics

The following 10 units of interdisciplinary upper-division coursework is required: *Note: PHIL 371 will satisfy GE Area C4.*

- PHIL 371 - Philosophy of Education Units: 3 ; G.E./G.R. Area: C4
- SCI 308 - Hands-On Science Teaching Units: 1
- STAT 303 - Statistical Methods in Biology Units: 3
- TED 301 - Introduction to Education Units: 3

Concentration Electives

Choose one (1) of the following for 3-4 units:

- BIOL 426 - Advanced Molecular and Cell Biology Units: 3
- BIOL 430 - Microbial Physiology and Metabolism Units: 3

- BIOL 469 - Conservation Biology *Units: 4*
- BIOL 488 - Environmental Physiology *Units: 3*

Other Undergraduate Degree Requirements

In addition to major requirements, every student must also complete the University's baccalaureate requirements for graduation, which are described in the Requirements, Exams & Testing chapter of this catalog.

Department Courses Listed by Course Type

Biological Sciences Courses

Department of Biological Sciences

Go to information for this department.

Courses

Biological Science

- • BIOL 100 - Biology in the Real World *Units: 4 ; G.E./G.R. Area: B2, B3*
- • BIOL 101 - Introduction to Biology *Units: 3 ; G.E./G.R. Area: B2*
- • BIOL 102 - Introduction to Biology Lab *Units: 1 ; G.E./G.R. Area: B3*
- • BIOL 140A - Principles of Cell and Molecular Biology *Units: 5 ; G.E./G.R. Area: B2, B3*
- • BIOL 140B - Principles of Organismal Biology *Units: 5*
- • BIOL 230 - Introduction to Clinical Microbiology *Units: 4 ; G.E./G.R. Area: B2, B3*
- • BIOL 270 - Human Anatomy & Physiology I *Units: 4 ; G.E./G.R. Area: B2, B3*
- • BIOL 271 - Human Anatomy & Physiology II *Units: 4*
- • BIOL 301 - Biology Connections *Units: 3*
- • BIOL 302 - Biology Connections Laboratory *Units: 1*
- • BIOL 310 - Genetic Analysis I *Units: 4*
- • BIOL 315 - Marine Biology *Units: 4*
- • BIOL 320 - Evolutionary Biology *Units: 3*
- • BIOL 330 - General Microbiology *Units: 5*
- • BIOL 333 - Humans and Sex *Units: 3 ; G.E./G.R. Area: B6; Diversity*
- • BIOL 334 - Humans and the Living Planet *Units: 3 ; G.E./G.R. Area: B6; Sustainability*
- • BIOL 335 - Humans: Health and Disease *Units: 3 ; G.E./G.R. Area: B6; Social Justice*
- • BIOL 350 - Ecology *Units: 4*
- • BIOL 352 - Biogeography *Units: 4*
- • BIOL 356 - Freshwater Environments *Units: 4*
- • BIOL 368 - Fungi of California *Units: 3*
- • BIOL 370 - Animal Physiology *Units: 4*
- • BIOL 372 - Microscopic Methods: Quantitative Analysis of Structure & Function *Units: 3*
- • BIOL 398 - Internship *Units: 1-4*
- • BIOL 410 - Genetic Analysis II *Units: 3*
- • BIOL 415 - PCR, Sequencing and Fragment Analysis *Units: 3*
- • BIOL 420 - Cell and Molecular Biology Undergraduate Seminar *Units: 2*
- • BIOL 424 - Bioinformatics *Units: 3*

- • BIOL 425 - Techniques in Mammalian Cell Culture *Units: 3*
- • BIOL 426 - Advanced Molecular and Cell Biology *Units: 3*
- • BIOL 427 - Molecular and Cell Biology Lab *Units: 3*
- • BIOL 428 - Genomics *Units: 3*
- • BIOL 430 - Microbial Physiology and Metabolism *Units: 3*
- • BIOL 431 - Medical Microbiology *Units: 5*
- • BIOL 432 - Microbe-Host Interactions *Units: 3*
- • BIOL 433 - Microbial Ecology *Units: 3*
- • BIOL 434 - Molecular Microbiology *Units: 3*
- • BIOL 440 - Molecular Virology *Units: 3*
- • BIOL 441 - Parasitology *Units: 3*
- • BIOL 442 - Epidemiology *Units: 3*
- • BIOL 443 - Hematology *Units: 4*
- • BIOL 444 - Medical Entomology *Units: 3*
- • BIOL 445 - Immunology *Units: 3*
- • BIOL 454 - Biology of Fungi *Units: 4*
- • BIOL 455 - Vertebrate Biology *Units: 4*
- • BIOL 458 - Animal Behavior *Units: 4*
- • BIOL 460 - Ecology and Evolutionary Biology Undergraduate Seminar *Units: 2*
- • BIOL 466 - Population Biology *Units: 4*
- • BIOL 468 - Molecular Ecology *Units: 4*
- • BIOL 469 - Conservation Biology *Units: 4*
- • BIOL 470 - Animal Senses *Units: 4*
- • BIOL 471 - Neurobiology *Units: 3*
- • BIOL 472 - Neurobiology Laboratory *Units: 4*
- • BIOL 473 - Comparative Physiology *Units: 3*
- • BIOL 474 - Biomedical Physiology *Units: 3*
- • BIOL 475 - Global Change Biology *Units: 4*
- • BIOL 476 - General Endocrinology *Units: 3*
- • BIOL 488 - Environmental Physiology *Units: 3*
- • BIOL 490 - Independent Study *Units: 1-4*
- • BIOL 497 - Issues in Biological Science *Units: 1-3*

Biological Science: Graduate

- • BIOL 601A - Foundations of Scientific Research *Units: 1*
- • BIOL 601B - Foundations of Scientific Communication *Units: 1*
- • BIOL 602 - Preparation for Undergraduate Instruction in Biology *Units: 3*
- • BIOL 610 - Seminar in Cell & Molecular Biology *Units: 2*
- • BIOL 616 - Cell and Molecular Biology I *Units: 3*
- • BIOL 618 - Cell and Molecular Biology II *Units: 3*
- • BIOL 620 - Functional Genomics *Units: 3*
- • BIOL 622 - Advanced Molecular Techniques *Units: 3*
- • BIOL 630 - Seminar in Microbiology *Units: 2*
- • BIOL 631 - Microbial Physiology and Biochemistry *Units: 3*
- • BIOL 650 - Seminar in Ecology and Evolution *Units: 2*
- • BIOL 652 - Advances in Ecology and Evolution *Units: 3*
- • BIOL 653 - Community and Ecosystem Biology *Units: 4*
- • BIOL 655 - Phylogenetic Methods *Units: 3*
- • BIOL 657 - Environmental Experimental Analysis *Units: 4*
- • BIOL 670 - Seminar in Physiology *Units: 2*
- • BIOL 671 - Advanced Topics in Physiology *Units: 3*

- • BIOL 672 - Microscopic Methods: Quantitative Analysis of Structure & Function *Units: 3*
- • BIOL 690 - Independent Study *Units: 1-4*
- • BIOL 691 - University Thesis *Units: 1-5*
- • BIOL 698 - Internship *Units: 1-4*

Marine Science

- • MSC 403 - Marine Ecology *Units: 4*
- • MSC 405 - Marine Science Diving *Units: 3*
- • MSC 412 - Marine Birds and Mammals *Units: 4*
- • MSC 413 - Marine Ichthyology *Units: 4*
- • MSC 424 - Marine Invertebrate Zoology I *Units: 4*
- • MSC 425 - Marine Invertebrate Zoology II *Units: 3*
- • MSC 431 - Marine Botany *Units: 4*
- • MSC 435 - Physiology of Marine Algae *Units: 4*
- • MSC 441 - Geological Oceanography *Units: 4*
- • MSC 442 - Physical Oceanography *Units: 4*
- • MSC 443 - Chemical Oceanography *Units: 4*
- • MSC 444 - Biological Oceanography *Units: 4*
- • MSC 490 - Independent Study *Units: 1-4*
- • MSC 497 - Topics in Marine Sciences *Units: 1*

Marine Science: Graduate

- • MSC 601 - Library Research Methods in Marine Science *Units: 1*
- • MSC 602 - Oceanographic Instrumentation *Units: 4*
- • MSC 604 - Sampling and Experimental Design *Units: 4*
- • MSC 606 - Molecular Biological Techniques *Units: 4*
- • MSC 608 - Scientific Methods *Units: 4*
- • MSC 611 - Ecology of Marine Turtles, Birds and Mammals *Units: 4*
- • MSC 612 - Advanced Topics in Marine Vertebrates *Units: 4*
- • MSC 621 - Advanced Topics in Marine Invertebrates *Units: 4*
- • MSC 631 - Biology of Seaweeds *Units: 4*
- • MSC 633 - Advanced Topics in Marine Ecology *Units: 4*
- • MSC 634 - Advanced Biological Oceanography *Units: 4*
- • MSC 642 - Plate Tectonics *Units: 3*
- • MSC 646 - Geology of the Monterey Bay Region *Units: 4*
- • MSC 648 - Marine Benthic Habitat Mapping Techniques *Units: 4*
- • MSC 651 - Marine Geochemistry *Units: 4*
- • MSC 661 - Mixing, Estuarine and Sediment Transport *Units: 4*
- • MSC 663 - Data Analysis Techniques in Marine Science *Units: 4*
- • MSC 671 - Population Biology *Units: 3*
- • MSC 672 - Subtidal Ecology *Units: 4*
- • MSC 674 - Advanced Topics in Oceanography *Units: 4*
- • MSC 680 - Scientific Writing *Units: 3*
- • MSC 681 - Coastal Dynamics *Units: 4*
- • MSC 689 - Research in Marine Science *Units: 2*
- • MSC 690 - Independent Study *Units: 1-4*
- • MSC 691 - University Thesis *Units: 4*
- • MSC 697 - Graduate Seminar in Marine Science *Units: 2*

Biological Sciences, B.S.: Cell and Molecular Biology Concentration

Biological Science, B.S. Program (120 units)

Program Description

Biology is concerned with living matter in all its forms, responses, and interactions. It deals with the study of anything that has been or is alive: microbes, fungi, plants, "protists" and all animals, including humans. The science of biology includes a large number of highly integrated sub-disciplines such as microbiology, genetics, molecular biology, ecology, evolutionary biology, physiology, systematics, and behavior. Biologists must draw upon a wide variety of academic disciplines to make observations and form conclusions, and well-trained biologists have solid backgrounds in chemistry, mathematics, computer science, statistics, physics, and the humanities, as required by graduate programs and professional schools, to meet the demands of professions in the life sciences.

The Department of Biological Sciences offers a diversified curriculum in the life sciences. Courses are designed for biology majors with specific degree objectives, for students seeking applied technical training, and for non-major students with general interest in biological subjects. Undergraduate programs will prepare students for both graduate work and for a diversity of careers. Biology majors may enter specialized or general careers in life science and find themselves working in laboratories, offices, the field, administrative posts, academic institutions, industry, government agencies, private foundations, botanic gardens, wildlife preserves and zoos. Simply put, biologists study the living planet.

Program Learning Outcomes

Students graduating with a B.S. in Biological Science from Cal State East Bay will be able to:

1. Explain core biological concepts, including evolutionary processes, structure-function relationships across all levels of biological organization, homeostasis, information flow, matter and energy transformations, and the interactions and interconnectedness of living systems.
2. Apply quantitative reasoning to explain biological phenomena and to address biological problems.
3. Clearly communicate biological information in a variety of formats (written, oral, visual) using a style appropriate for the intended audience.
4. Apply methods of scientific inquiry by formulating testable hypotheses, collecting and analyzing data, and reporting conclusions.
5. Gather, interpret, and evaluate published scientific information.

Career Opportunities

A degree in biological science can lead to many exciting career opportunities including: • Biotechnologist • Health Professional such as Medical Doctor, Dentist, Ophthalmologist, Veterinarian, and Pharmacist • Environmental Scientist • Biology Researcher • Environmental Toxicologist • Forensic Scientist • Clinical Lab Scientist • Biology Teacher/Science Educator • College Instructor • Marine Biologist • Physical Therapist • Food Scientist • Radiation Therapy Technologist • Dietician • Science Editor • Medical Illustrator • Horticulturalist • Emergency Medical Technician • Mortician • Medical Technologist • Drug Inspector.

Features

Classes are offered on the Hayward campus in well-equipped facilities, at the Moss Landing Marine Laboratories located in Monterey Bay (via participation in a CSU Consortium which allows degree credit for MLML course), and at field locations such as Garin Reserve adjacent to campus.

A concentration in Microbiology and Biomedical Laboratory Sciences is offered to qualify students for California hospital traineeships which lead to state licensing as medical technologists and clinical lab scientists.

Preparation

A student who has successfully completed an advanced placement course in biology in high school and has earned a score of "3," "4" or "5" on the Advanced Placement Examination will be granted the following course credit:

- Score of 3, credit for non-majors introductory biology and lab (BIOL 100 or BIOL 101+102)
- Score of 4, credit for BIOL 140B only
- Score of 5, credit for BIOL 140A and BIOL 140B

Note: students earning a score of "3" or better on the AP Biology Exam will earn no more than 6 semester units toward the degree and will have satisfied GE Areas B2 and B3.

Prerequisite courses for all Biology courses must be passed with a grade of "C-" or better. All requests for Grade Forgiveness are subject to space availability, with priority given to newly enrolled students.

Bachelor's Degree Requirements

For the B.S. degree in Biological Science, the student must select a concentration to complete the major. All concentrations have the same lower and upper division core of required classes. See major requirements for concentration information.

Degree Requirements Unit-Outline

- A baccalaureate of arts degree requires a total of 120 units:
 - The major requirements consists of 75 units;
 - General Education (GE) & Graduation Requirements (GR) consists of 57 units;
 - Free Electives may consist of 0 units (*actual number of free elective units may depend*

on GE/GR units).

Note: It may be possible to double-count units within the graduation requirements or that a course may satisfy both a graduation requirement and a major requirement. Students should contact their program and AACE advisors for information.

Biological Science (B.S.) Major Requirements (75 units)

Lower Division Coursework

The following 32 units of interdisciplinary coursework is required:

- BIOL 140A - Principles of Cell and Molecular Biology Units: 5 ; G.E./G.R. Area: B2, B3
- BIOL 140B - Principles of Organismal Biology Units: 5

- CHEM 111 - General Chemistry I *Units: 5 ; G.E./G.R. Area: B1, B3*
- CHEM 112 - General Chemistry II *Units: 5*
- MATH 130 - Calculus I *Units: 4 ; G.E./G.R. Area: B4*
- PHYS 125 - Principles of Physics I *Units: 4 ; G.E./G.R. Area: B1, B3*
- PHYS 126 - Principles of Physics II *Units: 4 ; G.E./G.R. Area: B1, B3*

Upper Division Coursework

The following 7 units of upper-division coursework is required:

- BIOL 310 - Genetic Analysis I *Units: 4*
- BIOL 320 - Evolutionary Biology *Units: 3*

Concentrations

Students must choose one (1) concentration for 36 units to complete the major:

- Biological Sciences, B.S.: Cell and Molecular Biology Concentration
- Biological Sciences, B.S.: Ecology and Evolutionary Biology Concentration
- Biological Sciences, B.S.: Forensic Science Concentration
- Biological Sciences, B.S.: Microbiology and Biomedical Lab Sciences Concentration
- Biological Sciences, B.S.: Physiology Concentration

Cell and Molecular Biology Concentration

Upper Division Coursework

The following 29 units of interdisciplinary coursework is required:

- BIOL 410 - Genetic Analysis II *Units: 3*
- BIOL 424 - Bioinformatics *Units: 3*
- BIOL 426 - Advanced Molecular and Cell Biology *Units: 3*
- BIOL 427 - Molecular and Cell Biology Lab *Units: 3*
- BIOL 428 - Genomics *Units: 3*
- CHEM 331 - Organic Chemistry I *Units: 5*
- CHEM 332 - Organic Chemistry II *Units: 5*
- CHEM 441 - Biochemistry I *Units: 4*

Elective Courses

Choose a minimum of 7 units of electives from the following list of courses. *Note: BIOL 398 Co-operative Education and/or BIOL 490 Independent Study may be used for a maximum total of 3 units elective credit. Enrollment in these courses requires approval by a faculty member and the Department Chair.*

- BIOL 330 - General Microbiology *Units: 5*
- BIOL 398 - Internship *Units: 1-4*
- BIOL 415 - PCR, Sequencing and Fragment Analysis *Units: 3*

- BIOL 420 - Cell and Molecular Biology Undergraduate Seminar *Units: 2*
- BIOL 425 - Techniques in Mammalian Cell Culture *Units: 3*
- BIOL 431 - Medical Microbiology *Units: 5*
- BIOL 434 - Molecular Microbiology *Units: 3*
- BIOL 440 - Molecular Virology *Units: 3*
- BIOL 443 - Hematology *Units: 4*
- BIOL 445 - Immunology *Units: 3*
- BIOL 466 - Population Biology *Units: 4*
- BIOL 468 - Molecular Ecology *Units: 4*
- BIOL 490 - Independent Study *Units: 1-4*
- CHEM 442 - Biochemistry II *Units: 4*

Other Undergraduate Degree Requirements

In addition to major requirements, every student must also complete the University's baccalaureate requirements for graduation, which are described in the Requirements, Exams & Testing chapter of this catalog.

Department Courses Listed by Course Type

Biological Sciences Courses

Department of Biological Sciences

Go to information for this department.

Courses

Biological Science

- • BIOL 100 - Biology in the Real World *Units: 4 ; G.E./G.R. Area: B2, B3*
- • BIOL 101 - Introduction to Biology *Units: 3 ; G.E./G.R. Area: B2*
- • BIOL 102 - Introduction to Biology Lab *Units: 1 ; G.E./G.R. Area: B3*
- • BIOL 140A - Principles of Cell and Molecular Biology *Units: 5 ; G.E./G.R. Area: B2, B3*
- • BIOL 140B - Principles of Organismal Biology *Units: 5*
- • BIOL 230 - Introduction to Clinical Microbiology *Units: 4 ; G.E./G.R. Area: B2, B3*
- • BIOL 270 - Human Anatomy & Physiology I *Units: 4 ; G.E./G.R. Area: B2, B3*
- • BIOL 271 - Human Anatomy & Physiology II *Units: 4*
- • BIOL 301 - Biology Connections *Units: 3*
- • BIOL 302 - Biology Connections Laboratory *Units: 1*
- • BIOL 310 - Genetic Analysis I *Units: 4*
- • BIOL 315 - Marine Biology *Units: 4*
- • BIOL 320 - Evolutionary Biology *Units: 3*
- • BIOL 330 - General Microbiology *Units: 5*
- • BIOL 333 - Humans and Sex *Units: 3 ; G.E./G.R. Area: B6; Diversity*
- • BIOL 334 - Humans and the Living Planet *Units: 3 ; G.E./G.R. Area: B6; Sustainability*
- • BIOL 335 - Humans: Health and Disease *Units: 3 ; G.E./G.R. Area: B6; Social Justice*

- • BIOL 350 - Ecology *Units: 4*
- • BIOL 352 - Biogeography *Units: 4*
- • BIOL 356 - Freshwater Environments *Units: 4*
- • BIOL 368 - Fungi of California *Units: 3*
- • BIOL 370 - Animal Physiology *Units: 4*
- • BIOL 372 - Microscopic Methods: Quantitative Analysis of Structure & Function *Units: 3*
- • BIOL 398 - Internship *Units: 1-4*
- • BIOL 410 - Genetic Analysis II *Units: 3*
- • BIOL 415 - PCR, Sequencing and Fragment Analysis *Units: 3*
- • BIOL 420 - Cell and Molecular Biology Undergraduate Seminar *Units: 2*
- • BIOL 424 - Bioinformatics *Units: 3*
- • BIOL 425 - Techniques in Mammalian Cell Culture *Units: 3*
- • BIOL 426 - Advanced Molecular and Cell Biology *Units: 3*
- • BIOL 427 - Molecular and Cell Biology Lab *Units: 3*
- • BIOL 428 - Genomics *Units: 3*
- • BIOL 430 - Microbial Physiology and Metabolism *Units: 3*
- • BIOL 431 - Medical Microbiology *Units: 5*
- • BIOL 432 - Microbe-Host Interactions *Units: 3*
- • BIOL 433 - Microbial Ecology *Units: 3*
- • BIOL 434 - Molecular Microbiology *Units: 3*
- • BIOL 440 - Molecular Virology *Units: 3*
- • BIOL 441 - Parasitology *Units: 3*
- • BIOL 442 - Epidemiology *Units: 3*
- • BIOL 443 - Hematology *Units: 4*
- • BIOL 444 - Medical Entomology *Units: 3*
- • BIOL 445 - Immunology *Units: 3*
- • BIOL 454 - Biology of Fungi *Units: 4*
- • BIOL 455 - Vertebrate Biology *Units: 4*
- • BIOL 458 - Animal Behavior *Units: 4*
- • BIOL 460 - Ecology and Evolutionary Biology Undergraduate Seminar *Units: 2*
- • BIOL 466 - Population Biology *Units: 4*
- • BIOL 468 - Molecular Ecology *Units: 4*
- • BIOL 469 - Conservation Biology *Units: 4*
- • BIOL 470 - Animal Senses *Units: 4*
- • BIOL 471 - Neurobiology *Units: 3*
- • BIOL 472 - Neurobiology Laboratory *Units: 4*
- • BIOL 473 - Comparative Physiology *Units: 3*
- • BIOL 474 - Biomedical Physiology *Units: 3*
- • BIOL 475 - Global Change Biology *Units: 4*
- • BIOL 476 - General Endocrinology *Units: 3*
- • BIOL 488 - Environmental Physiology *Units: 3*
- • BIOL 490 - Independent Study *Units: 1-4*
- • BIOL 497 - Issues in Biological Science *Units: 1-3*

Biological Science: Graduate

- • BIOL 601A - Foundations of Scientific Research *Units: 1*
- • BIOL 601B - Foundations of Scientific Communication *Units: 1*
- • BIOL 602 - Preparation for Undergraduate Instruction in Biology *Units: 3*
- • BIOL 610 - Seminar in Cell & Molecular Biology *Units: 2*
- • BIOL 616 - Cell and Molecular Biology I *Units: 3*
- • BIOL 618 - Cell and Molecular Biology II *Units: 3*

- • BIOL 620 - Functional Genomics *Units: 3*
- • BIOL 622 - Advanced Molecular Techniques *Units: 3*
- • BIOL 630 - Seminar in Microbiology *Units: 2*
- • BIOL 631 - Microbial Physiology and Biochemistry *Units: 3*
- • BIOL 650 - Seminar in Ecology and Evolution *Units: 2*
- • BIOL 652 - Advances in Ecology and Evolution *Units: 3*
- • BIOL 653 - Community and Ecosystem Biology *Units: 4*
- • BIOL 655 - Phylogenetic Methods *Units: 3*
- • BIOL 657 - Environmental Experimental Analysis *Units: 4*
- • BIOL 670 - Seminar in Physiology *Units: 2*
- • BIOL 671 - Advanced Topics in Physiology *Units: 3*
- • BIOL 672 - Microscopic Methods: Quantitative Analysis of Structure & Function *Units: 3*
- • BIOL 690 - Independent Study *Units: 1-4*
- • BIOL 691 - University Thesis *Units: 1-5*
- • BIOL 698 - Internship *Units: 1-4*

Marine Science

- • MSC 403 - Marine Ecology *Units: 4*
- • MSC 405 - Marine Science Diving *Units: 3*
- • MSC 412 - Marine Birds and Mammals *Units: 4*
- • MSC 413 - Marine Ichthyology *Units: 4*
- • MSC 424 - Marine Invertebrate Zoology I *Units: 4*
- • MSC 425 - Marine Invertebrate Zoology II *Units: 3*
- • MSC 431 - Marine Botany *Units: 4*
- • MSC 435 - Physiology of Marine Algae *Units: 4*
- • MSC 441 - Geological Oceanography *Units: 4*
- • MSC 442 - Physical Oceanography *Units: 4*
- • MSC 443 - Chemical Oceanography *Units: 4*
- • MSC 444 - Biological Oceanography *Units: 4*
- • MSC 490 - Independent Study *Units: 1-4*
- • MSC 497 - Topics in Marine Sciences *Units: 1*

Marine Science: Graduate

- • MSC 601 - Library Research Methods in Marine Science *Units: 1*
- • MSC 602 - Oceanographic Instrumentation *Units: 4*
- • MSC 604 - Sampling and Experimental Design *Units: 4*
- • MSC 606 - Molecular Biological Techniques *Units: 4*
- • MSC 608 - Scientific Methods *Units: 4*
- • MSC 611 - Ecology of Marine Turtles, Birds and Mammals *Units: 4*
- • MSC 612 - Advanced Topics in Marine Vertebrates *Units: 4*
- • MSC 621 - Advanced Topics in Marine Invertebrates *Units: 4*
- • MSC 631 - Biology of Seaweeds *Units: 4*
- • MSC 633 - Advanced Topics in Marine Ecology *Units: 4*
- • MSC 634 - Advanced Biological Oceanography *Units: 4*
- • MSC 642 - Plate Tectonics *Units: 3*
- • MSC 646 - Geology of the Monterey Bay Region *Units: 4*
- • MSC 648 - Marine Benthic Habitat Mapping Techniques *Units: 4*
- • MSC 651 - Marine Geochemistry *Units: 4*
- • MSC 661 - Mixing, Estuarine and Sediment Transport *Units: 4*
- • MSC 663 - Data Analysis Techniques in Marine Science *Units: 4*
- • MSC 671 - Population Biology *Units: 3*

- MSC 672 - Subtidal Ecology *Units: 4*
- MSC 674 - Advanced Topics in Oceanography *Units: 4*
- MSC 680 - Scientific Writing *Units: 3*
- MSC 681 - Coastal Dynamics *Units: 4*
- MSC 689 - Research in Marine Science *Units: 2*
- MSC 690 - Independent Study *Units: 1-4*
- MSC 691 - University Thesis *Units: 4*
- MSC 697 - Graduate Seminar in Marine Science *Units: 2*

Biological Sciences, B.S.: Ecology and Evolutionary Biology Concentration

Biological Science, B.S. Program (120 units)

Program Description

Biology is concerned with living matter in all its forms, responses, and interactions. It deals with the study of anything that has been or is alive: microbes, fungi, plants, "protists" and all animals, including humans. The science of biology includes a large number of highly integrated sub-disciplines such as microbiology, genetics, molecular biology, ecology, evolutionary biology, physiology, systematics, and behavior. Biologists must draw upon a wide variety of academic disciplines to make observations and form conclusions, and well-trained biologists have solid backgrounds in chemistry, mathematics, computer science, statistics, physics, and the humanities, as required by graduate programs and professional schools, to meet the demands of professions in the life sciences.

The Department of Biological Sciences offers a diversified curriculum in the life sciences. Courses are designed for biology majors with specific degree objectives, for students seeking applied technical training, and for non-major students with general interest in biological subjects. Undergraduate programs will prepare students for both graduate work and for a diversity of careers. Biology majors may enter specialized or general careers in life science and find themselves working in laboratories, offices, the field, administrative posts, academic institutions, industry, government agencies, private foundations, botanic gardens, wildlife preserves and zoos. Simply put, biologists study the living planet.

Program Learning Outcomes

Students graduating with a B.S. in Biological Science from Cal State East Bay will be able to:

1. Explain core biological concepts, including evolutionary processes, structure-function relationships across all levels of biological organization, homeostasis, information flow, matter and energy transformations, and the interactions and interconnectedness of living systems.
2. Apply quantitative reasoning to explain biological phenomena and to address biological problems.
3. Clearly communicate biological information in a variety of formats (written, oral, visual) using a style appropriate for the intended audience.
4. Apply methods of scientific inquiry by formulating testable hypotheses, collecting and analyzing data, and reporting conclusions.
5. Gather, interpret, and evaluate published scientific information.

Career Opportunities

A degree in biological science can lead to many exciting career opportunities including: • Biotechnologist • Health Professional such as Medical Doctor, Dentist, Ophthalmologist, Veterinarian, and Pharmacist • Environmental Scientist • Biology Researcher • Environmental Toxicologist • Forensic Scientist • Clinical Lab Scientist • Biology Teacher/Science Educator • College Instructor • Marine Biologist • Physical Therapist • Food Scientist • Radiation Therapy Technologist • Dietician • Science Editor • Medical Illustrator • Horticulturalist • Emergency Medical Technician • Mortician • Medical Technologist • Drug Inspector.

Features

Classes are offered on the Hayward campus in well-equipped facilities, at the Moss Landing Marine Laboratories located in Monterey Bay (via participation in a CSU Consortium which allows degree credit for MLML course), and at field locations such as Garin Reserve adjacent to campus.

A concentration in Microbiology and Biomedical Laboratory Sciences is offered to qualify students for California hospital traineeships which lead to state licensing as medical technologists and clinical lab scientists.

Preparation

A student who has successfully completed an advanced placement course in biology in high school and has earned a score of "3," "4" or "5" on the Advanced Placement Examination will be granted the following course credit:

- Score of 3, credit for non-majors introductory biology and lab (BIOL 100 or BIOL 101+102)
- Score of 4, credit for BIOL 140B only
- Score of 5, credit for BIOL 140A and BIOL 140B

Note: students earning a score of "3" or better on the AP Biology Exam will earn no more than 6 semester units toward the degree and will have satisfied GE Areas B2 and B3.

Prerequisite courses for all Biology courses must be passed with a grade of "C-" or better. All requests for Grade Forgiveness are subject to space availability, with priority given to newly enrolled students.

Bachelor's Degree Requirements

For the B.S. degree in Biological Science, the student must select a concentration to complete the major. All concentrations have the same lower and upper division core of required classes. See major requirements for concentration information.

Degree Requirements Unit-Outline

- A baccalaureate of arts degree requires a total of 120 units:
 - The major requirements consists of 75 units;
 - General Education (GE) & Graduation Requirements (GR) consists of 57 units;
 - Free Electives may consist of 0 units (*actual number of free elective units may depend on GE/GR units*).

Note: It may be possible to double-count units within the graduation requirements or that a course may satisfy both a graduation requirement and a major requirement. Students should contact their program and AACE advisors for information.

Biological Science (B.S.) Major Requirements (75 units)

Lower Division Coursework

The following 32 units of interdisciplinary coursework is required:

- BIOL 140A - Principles of Cell and Molecular Biology Units: 5 ; G.E./G.R. Area: B2, B3
- BIOL 140B - Principles of Organismal Biology Units: 5
- CHEM 111 - General Chemistry I Units: 5 ; G.E./G.R. Area: B1, B3
- CHEM 112 - General Chemistry II Units: 5
- MATH 130 - Calculus I Units: 4 ; G.E./G.R. Area: B4
- PHYS 125 - Principles of Physics I Units: 4 ; G.E./G.R. Area: B1, B3
- PHYS 126 - Principles of Physics II Units: 4 ; G.E./G.R. Area: B1, B3

Upper Division Coursework

The following 7 units of upper-division coursework is required:

- BIOL 310 - Genetic Analysis I Units: 4
- BIOL 320 - Evolutionary Biology Units: 3

Concentrations

Students must choose one (1) concentration for 36 units to complete the major:

- Biological Sciences, B.S.: Cell and Molecular Biology Concentration
- Biological Sciences, B.S.: Ecology and Evolutionary Biology Concentration
- Biological Sciences, B.S.: Forensic Science Concentration
- Biological Sciences, B.S.: Microbiology and Biomedical Lab Sciences Concentration
- Biological Sciences, B.S.: Physiology Concentration

Ecology and Evolutionary Biology Concentration

Upper Division Coursework

The following 25 units of interdisciplinary coursework is required:

- BIOL 350 - Ecology Units: 4
- BIOL 370 - Animal Physiology Units: 4
- BIOL 460 - Ecology and Evolutionary Biology Undergraduate Seminar Units: 2
- BIOL 469 - Conservation Biology Units: 4

- CHEM 230 - Survey of Organic Chemistry Units: 5
- CHEM 340 - Survey of Biochemistry Units: 3
- STAT 303 - Statistical Methods in Biology Units: 3

Note: If the student objective requires a year of organic chemistry and/or a year of biochemistry, then enroll in CHEM 330, 331 and CHEM 441, 442; enrollment in CHEM 441 requires a minimum C- in CHEM 331. A maximum of 5 units for the organic chemistry requirement and a maximum 3 units for the biochemistry requirement will apply to this concentration curriculum.

Elective Courses

Choose a minimum of 11 units of electives from the following list of courses. *Note: BIOL 398 Co-operative Education and/or BIOL 490 Independent Study may be used for a maximum of 3 units elective credit. Enrollment in these courses requires approval by a faculty member and the Department Chair.*

- BIOL 315 - Marine Biology Units: 4
- BIOL 352 - Biogeography Units: 4
- BIOL 368 - Fungi of California Units: 3
- BIOL 398 - Internship Units: 1-4
- BIOL 410 - Genetic Analysis II Units: 3
- BIOL 415 - PCR, Sequencing and Fragment Analysis Units: 3
- BIOL 424 - Bioinformatics Units: 3
- BIOL 444 - Medical Entomology Units: 3
- BIOL 454 - Biology of Fungi Units: 4
- BIOL 455 - Vertebrate Biology Units: 4
- BIOL 458 - Animal Behavior Units: 4
- BIOL 466 - Population Biology Units: 4
- BIOL 468 - Molecular Ecology Units: 4
- BIOL 475 - Global Change Biology Units: 4
- BIOL 490 - Independent Study Units: 1-4

Please Note: Courses offered at Moss Landing Marine Laboratories (<https://www.mlml.calstate.edu>) may also be used to satisfy the electives unit requirement. Enrollment in these courses requires approval by a faculty member and the Department Chair.

Other Undergraduate Degree Requirements

In addition to major requirements, every student must also complete the University's baccalaureate requirements for graduation, which are described in the Requirements, Exams & Testing chapter of this catalog.

Department Courses Listed by Course Type

Biological Sciences Courses

Department of Biological Sciences

Go to information for this department.

Courses

Biological Science

- • BIOL 100 - Biology in the Real World *Units: 4 ; G.E./G.R. Area: B2, B3*
- • BIOL 101 - Introduction to Biology *Units: 3 ; G.E./G.R. Area: B2*
- • BIOL 102 - Introduction to Biology Lab *Units: 1 ; G.E./G.R. Area: B3*
- • BIOL 140A - Principles of Cell and Molecular Biology *Units: 5 ; G.E./G.R. Area: B2, B3*
- • BIOL 140B - Principles of Organismal Biology *Units: 5*
- • BIOL 230 - Introduction to Clinical Microbiology *Units: 4 ; G.E./G.R. Area: B2, B3*
- • BIOL 270 - Human Anatomy & Physiology I *Units: 4 ; G.E./G.R. Area: B2, B3*
- • BIOL 271 - Human Anatomy & Physiology II *Units: 4*
- • BIOL 301 - Biology Connections *Units: 3*
- • BIOL 302 - Biology Connections Laboratory *Units: 1*
- • BIOL 310 - Genetic Analysis I *Units: 4*
- • BIOL 315 - Marine Biology *Units: 4*
- • BIOL 320 - Evolutionary Biology *Units: 3*
- • BIOL 330 - General Microbiology *Units: 5*
- • BIOL 333 - Humans and Sex *Units: 3 ; G.E./G.R. Area: B6; Diversity*
- • BIOL 334 - Humans and the Living Planet *Units: 3 ; G.E./G.R. Area: B6; Sustainability*
- • BIOL 335 - Humans: Health and Disease *Units: 3 ; G.E./G.R. Area: B6; Social Justice*
- • BIOL 350 - Ecology *Units: 4*
- • BIOL 352 - Biogeography *Units: 4*
- • BIOL 356 - Freshwater Environments *Units: 4*
- • BIOL 368 - Fungi of California *Units: 3*
- • BIOL 370 - Animal Physiology *Units: 4*
- • BIOL 372 - Microscopic Methods: Quantitative Analysis of Structure & Function *Units: 3*
- • BIOL 398 - Internship *Units: 1-4*
- • BIOL 410 - Genetic Analysis II *Units: 3*
- • BIOL 415 - PCR, Sequencing and Fragment Analysis *Units: 3*
- • BIOL 420 - Cell and Molecular Biology Undergraduate Seminar *Units: 2*
- • BIOL 424 - Bioinformatics *Units: 3*
- • BIOL 425 - Techniques in Mammalian Cell Culture *Units: 3*
- • BIOL 426 - Advanced Molecular and Cell Biology *Units: 3*
- • BIOL 427 - Molecular and Cell Biology Lab *Units: 3*
- • BIOL 428 - Genomics *Units: 3*
- • BIOL 430 - Microbial Physiology and Metabolism *Units: 3*
- • BIOL 431 - Medical Microbiology *Units: 5*
- • BIOL 432 - Microbe-Host Interactions *Units: 3*
- • BIOL 433 - Microbial Ecology *Units: 3*
- • BIOL 434 - Molecular Microbiology *Units: 3*
- • BIOL 440 - Molecular Virology *Units: 3*
- • BIOL 441 - Parasitology *Units: 3*
- • BIOL 442 - Epidemiology *Units: 3*
- • BIOL 443 - Hematology *Units: 4*
- • BIOL 444 - Medical Entomology *Units: 3*
- • BIOL 445 - Immunology *Units: 3*
- • BIOL 454 - Biology of Fungi *Units: 4*
- • BIOL 455 - Vertebrate Biology *Units: 4*
- • BIOL 458 - Animal Behavior *Units: 4*
- • BIOL 460 - Ecology and Evolutionary Biology Undergraduate Seminar *Units: 2*

- • BIOL 466 - Population Biology *Units: 4*
- • BIOL 468 - Molecular Ecology *Units: 4*
- • BIOL 469 - Conservation Biology *Units: 4*
- • BIOL 470 - Animal Senses *Units: 4*
- • BIOL 471 - Neurobiology *Units: 3*
- • BIOL 472 - Neurobiology Laboratory *Units: 4*
- • BIOL 473 - Comparative Physiology *Units: 3*
- • BIOL 474 - Biomedical Physiology *Units: 3*
- • BIOL 475 - Global Change Biology *Units: 4*
- • BIOL 476 - General Endocrinology *Units: 3*
- • BIOL 488 - Environmental Physiology *Units: 3*
- • BIOL 490 - Independent Study *Units: 1-4*
- • BIOL 497 - Issues in Biological Science *Units: 1-3*

Biological Science: Graduate

- • BIOL 601A - Foundations of Scientific Research *Units: 1*
- • BIOL 601B - Foundations of Scientific Communication *Units: 1*
- • BIOL 602 - Preparation for Undergraduate Instruction in Biology *Units: 3*
- • BIOL 610 - Seminar in Cell & Molecular Biology *Units: 2*
- • BIOL 616 - Cell and Molecular Biology I *Units: 3*
- • BIOL 618 - Cell and Molecular Biology II *Units: 3*
- • BIOL 620 - Functional Genomics *Units: 3*
- • BIOL 622 - Advanced Molecular Techniques *Units: 3*
- • BIOL 630 - Seminar in Microbiology *Units: 2*
- • BIOL 631 - Microbial Physiology and Biochemistry *Units: 3*
- • BIOL 650 - Seminar in Ecology and Evolution *Units: 2*
- • BIOL 652 - Advances in Ecology and Evolution *Units: 3*
- • BIOL 653 - Community and Ecosystem Biology *Units: 4*
- • BIOL 655 - Phylogenetic Methods *Units: 3*
- • BIOL 657 - Environmental Experimental Analysis *Units: 4*
- • BIOL 670 - Seminar in Physiology *Units: 2*
- • BIOL 671 - Advanced Topics in Physiology *Units: 3*
- • BIOL 672 - Microscopic Methods: Quantitative Analysis of Structure & Function *Units: 3*
- • BIOL 690 - Independent Study *Units: 1-4*
- • BIOL 691 - University Thesis *Units: 1-5*
- • BIOL 698 - Internship *Units: 1-4*

Marine Science

- • MSC 403 - Marine Ecology *Units: 4*
- • MSC 405 - Marine Science Diving *Units: 3*
- • MSC 412 - Marine Birds and Mammals *Units: 4*
- • MSC 413 - Marine Ichthyology *Units: 4*
- • MSC 424 - Marine Invertebrate Zoology I *Units: 4*
- • MSC 425 - Marine Invertebrate Zoology II *Units: 3*
- • MSC 431 - Marine Botany *Units: 4*
- • MSC 435 - Physiology of Marine Algae *Units: 4*
- • MSC 441 - Geological Oceanography *Units: 4*
- • MSC 442 - Physical Oceanography *Units: 4*
- • MSC 443 - Chemical Oceanography *Units: 4*
- • MSC 444 - Biological Oceanography *Units: 4*
- • MSC 490 - Independent Study *Units: 1-4*

- MSC 497 - Topics in Marine Sciences *Units: 1*
- Marine Science: Graduate**
- MSC 601 - Library Research Methods in Marine Science *Units: 1*
 - MSC 602 - Oceanographic Instrumentation *Units: 4*
 - MSC 604 - Sampling and Experimental Design *Units: 4*
 - MSC 606 - Molecular Biological Techniques *Units: 4*
 - MSC 608 - Scientific Methods *Units: 4*
 - MSC 611 - Ecology of Marine Turtles, Birds and Mammals *Units: 4*
 - MSC 612 - Advanced Topics in Marine Vertebrates *Units: 4*
 - MSC 621 - Advanced Topics in Marine Invertebrates *Units: 4*
 - MSC 631 - Biology of Seaweeds *Units: 4*
 - MSC 633 - Advanced Topics in Marine Ecology *Units: 4*
 - MSC 634 - Advanced Biological Oceanography *Units: 4*
 - MSC 642 - Plate Tectonics *Units: 3*
 - MSC 646 - Geology of the Monterey Bay Region *Units: 4*
 - MSC 648 - Marine Benthic Habitat Mapping Techniques *Units: 4*
 - MSC 651 - Marine Geochemistry *Units: 4*
 - MSC 661 - Mixing, Estuarine and Sediment Transport *Units: 4*
 - MSC 663 - Data Analysis Techniques in Marine Science *Units: 4*
 - MSC 671 - Population Biology *Units: 3*
 - MSC 672 - Subtidal Ecology *Units: 4*
 - MSC 674 - Advanced Topics in Oceanography *Units: 4*
 - MSC 680 - Scientific Writing *Units: 3*
 - MSC 681 - Coastal Dynamics *Units: 4*
 - MSC 689 - Research in Marine Science *Units: 2*
 - MSC 690 - Independent Study *Units: 1-4*
 - MSC 691 - University Thesis *Units: 4*
 - MSC 697 - Graduate Seminar in Marine Science *Units: 2*

Biological Sciences, B.S.: Forensic Science Concentration

Biological Science, B.S. Program (120 units)

Program Description

Biology is concerned with living matter in all its forms, responses, and interactions. It deals with the study of anything that has been or is alive: microbes, fungi, plants, "protists" and all animals, including humans. The science of biology includes a large number of highly integrated sub-disciplines such as microbiology, genetics, molecular biology, ecology, evolutionary biology, physiology, systematics, and behavior. Biologists must draw upon a wide variety of academic disciplines to make observations and form conclusions, and well-trained biologists have solid backgrounds in chemistry, mathematics, computer science, statistics, physics, and the humanities, as required by graduate programs and professional schools, to meet the demands of professions in the life sciences.

The Department of Biological Sciences offers a diversified curriculum in the life sciences. Courses are designed for biology majors with specific degree objectives, for students seeking applied technical training, and for non-major students with general interest in biological subjects. Undergraduate programs will prepare students for both graduate work and for a diversity of careers. Biology majors may enter

specialized or general careers in life science and find themselves working in laboratories, offices, the field, administrative posts, academic institutions, industry, government agencies, private foundations, botanic gardens, wildlife preserves and zoos. Simply put, biologists study the living planet.

Program Learning Outcomes

Students graduating with a B.S. in Biological Science from Cal State East Bay will be able to:

1. Explain core biological concepts, including evolutionary processes, structure-function relationships across all levels of biological organization, homeostasis, information flow, matter and energy transformations, and the interactions and interconnectedness of living systems.
2. Apply quantitative reasoning to explain biological phenomena and to address biological problems.
3. Clearly communicate biological information in a variety of formats (written, oral, visual) using a style appropriate for the intended audience.
4. Apply methods of scientific inquiry by formulating testable hypotheses, collecting and analyzing data, and reporting conclusions.
5. Gather, interpret, and evaluate published scientific information.

Career Opportunities

A degree in biological science can lead to many exciting career opportunities including: • Biotechnologist • Health Professional such as Medical Doctor, Dentist, Ophthalmologist, Veterinarian, and Pharmacist • Environmental Scientist • Biology Researcher • Environmental Toxicologist • Forensic Scientist • Clinical Lab Scientist • Biology Teacher/Science Educator • College Instructor • Marine Biologist • Physical Therapist • Food Scientist • Radiation Therapy Technologist • Dietician • Science Editor • Medical Illustrator • Horticulturalist • Emergency Medical Technician • Mortician • Medical Technologist • Drug Inspector.

Features

Classes are offered on the Hayward campus in well-equipped facilities, at the Moss Landing Marine Laboratories located in Monterey Bay (via participation in a CSU Consortium which allows degree credit for MLML course), and at field locations such as Garin Reserve adjacent to campus.

A concentration in Microbiology and Biomedical Laboratory Sciences is offered to qualify students for California hospital traineeships which lead to state licensing as medical technologists and clinical lab scientists.

Preparation

A student who has successfully completed an advanced placement course in biology in high school and has earned a score of "3," "4" or "5" on the Advanced Placement Examination will be granted the following course credit:

- Score of 3, credit for non-majors introductory biology and lab (BIOL 100 or BIOL 101+102)
- Score of 4, credit for BIOL 140B only
- Score of 5, credit for BIOL 140A and BIOL 140B

Note: students earning a score of "3" or better on the AP Biology Exam will earn no more than 6 semester units toward the degree and will have satisfied GE Areas B2 and B3.

Prerequisite courses for all Biology courses must be passed with a grade of "C-" or better. All requests for Grade Forgiveness are subject to space availability, with priority given to newly enrolled students.

Bachelor's Degree Requirements

For the B.S. degree in Biological Science, the student must select a concentration to complete the major. All concentrations have the same lower and upper division core of required classes. See major requirements for concentration information.

Degree Requirements Unit-Outline

- A baccalaureate of arts degree requires a total of 120 units:
 - The major requirements consists of 75 units;
 - General Education (GE) & Graduation Requirements (GR) consists of 57 units;
 - Free Electives may consist of 0 units (*actual number of free elective units may depend*

on GE/GR units).

Note: It may be possible to double-count units within the graduation requirements or that a course may satisfy both a graduation requirement and a major requirement. Students should contact their program and AACE advisors for information.

Biological Science (B.S.) Major Requirements (75 units)

Lower Division Coursework

The following 32 units of interdisciplinary coursework is required:

- BIOL 140A - Principles of Cell and Molecular Biology Units: 5 ; G.E./G.R. Area: B2, B3
- BIOL 140B - Principles of Organismal Biology Units: 5
- CHEM 111 - General Chemistry I Units: 5 ; G.E./G.R. Area: B1, B3
- CHEM 112 - General Chemistry II Units: 5
- MATH 130 - Calculus I Units: 4 ; G.E./G.R. Area: B4
- PHYS 125 - Principles of Physics I Units: 4 ; G.E./G.R. Area: B1, B3
- PHYS 126 - Principles of Physics II Units: 4 ; G.E./G.R. Area: B1, B3

Upper Division Coursework

The following 7 units of upper-division coursework is required:

- BIOL 310 - Genetic Analysis I Units: 4
- BIOL 320 - Evolutionary Biology Units: 3

Concentrations

Students must choose one (1) concentration for 36 units to complete the major:

- Biological Sciences, B.S.: Cell and Molecular Biology Concentration
- Biological Sciences, B.S.: Ecology and Evolutionary Biology Concentration
- Biological Sciences, B.S.: Forensic Science Concentration
- Biological Sciences, B.S.: Microbiology and Biomedical Lab Sciences Concentration
- Biological Sciences, B.S.: Physiology Concentration

Forensic Science Concentration

Upper Division Coursework

The following 32 units of interdisciplinary coursework is required:

- BIOL 415 - PCR, Sequencing and Fragment Analysis *Units: 3*
- BIOL 426 - Advanced Molecular and Cell Biology *Units: 3*
- CHEM 220 - Quantitative Analysis *Units: 4*
- CHEM 320 - Bioanalytical and Forensic Instrumentation *Units: 3*
- CHEM 331 - Organic Chemistry I *Units: 5*
- CHEM 332 - Organic Chemistry II *Units: 5*
- CRJ 340 - Advanced Criminal Investigation *Units: 3*
- CRJ 350 - Criminal Identification *Units: 3*
- CRJ 380 - Survey of Forensic Science *Units: 3*

Elective Courses

Choose a minimum of 4 units from the following:

- BIOL 270 - Human Anatomy & Physiology I *Units: 4 ; G.E./G.R. Area: B2, B3*
- BIOL 271 - Human Anatomy & Physiology II *Units: 4*
- BIOL 424 - Bioinformatics *Units: 3*
- CHEM 441 - Biochemistry I *Units: 4*

Other Undergraduate Degree Requirements

In addition to major requirements, every student must also complete the University's baccalaureate requirements for graduation, which are described in the Requirements, Exams & Testing chapter of this catalog.

Department Courses Listed by Course Type

Biological Sciences Courses

Department of Biological Sciences

Go to information for this department.

Courses

Biological Science

- BIOL 100 - Biology in the Real World *Units: 4 ; G.E./G.R. Area: B2, B3*
- BIOL 101 - Introduction to Biology *Units: 3 ; G.E./G.R. Area: B2*
- BIOL 102 - Introduction to Biology Lab *Units: 1 ; G.E./G.R. Area: B3*
- BIOL 140A - Principles of Cell and Molecular Biology *Units: 5 ; G.E./G.R. Area: B2, B3*
- BIOL 140B - Principles of Organismal Biology *Units: 5*
- BIOL 230 - Introduction to Clinical Microbiology *Units: 4 ; G.E./G.R. Area: B2, B3*
- BIOL 270 - Human Anatomy & Physiology I *Units: 4 ; G.E./G.R. Area: B2, B3*
- BIOL 271 - Human Anatomy & Physiology II *Units: 4*
- BIOL 301 - Biology Connections *Units: 3*
- BIOL 302 - Biology Connections Laboratory *Units: 1*
- BIOL 310 - Genetic Analysis I *Units: 4*
- BIOL 315 - Marine Biology *Units: 4*
- BIOL 320 - Evolutionary Biology *Units: 3*
- BIOL 330 - General Microbiology *Units: 5*
- BIOL 333 - Humans and Sex *Units: 3 ; G.E./G.R. Area: B6; Diversity*
- BIOL 334 - Humans and the Living Planet *Units: 3 ; G.E./G.R. Area: B6; Sustainability*
- BIOL 335 - Humans: Health and Disease *Units: 3 ; G.E./G.R. Area: B6; Social Justice*
- BIOL 350 - Ecology *Units: 4*
- BIOL 352 - Biogeography *Units: 4*
- BIOL 356 - Freshwater Environments *Units: 4*
- BIOL 368 - Fungi of California *Units: 3*
- BIOL 370 - Animal Physiology *Units: 4*
- BIOL 372 - Microscopic Methods: Quantitative Analysis of Structure & Function *Units: 3*
- BIOL 398 - Internship *Units: 1-4*
- BIOL 410 - Genetic Analysis II *Units: 3*
- BIOL 415 - PCR, Sequencing and Fragment Analysis *Units: 3*
- BIOL 420 - Cell and Molecular Biology Undergraduate Seminar *Units: 2*
- BIOL 424 - Bioinformatics *Units: 3*
- BIOL 425 - Techniques in Mammalian Cell Culture *Units: 3*
- BIOL 426 - Advanced Molecular and Cell Biology *Units: 3*
- BIOL 427 - Molecular and Cell Biology Lab *Units: 3*
- BIOL 428 - Genomics *Units: 3*
- BIOL 430 - Microbial Physiology and Metabolism *Units: 3*
- BIOL 431 - Medical Microbiology *Units: 5*
- BIOL 432 - Microbe-Host Interactions *Units: 3*
- BIOL 433 - Microbial Ecology *Units: 3*
- BIOL 434 - Molecular Microbiology *Units: 3*
- BIOL 440 - Molecular Virology *Units: 3*
- BIOL 441 - Parasitology *Units: 3*
- BIOL 442 - Epidemiology *Units: 3*
- BIOL 443 - Hematology *Units: 4*
- BIOL 444 - Medical Entomology *Units: 3*
- BIOL 445 - Immunology *Units: 3*
- BIOL 454 - Biology of Fungi *Units: 4*
- BIOL 455 - Vertebrate Biology *Units: 4*
- BIOL 458 - Animal Behavior *Units: 4*
- BIOL 460 - Ecology and Evolutionary Biology Undergraduate Seminar *Units: 2*
- BIOL 466 - Population Biology *Units: 4*
- BIOL 468 - Molecular Ecology *Units: 4*

- • BIOL 469 - Conservation Biology *Units: 4*
- • BIOL 470 - Animal Senses *Units: 4*
- • BIOL 471 - Neurobiology *Units: 3*
- • BIOL 472 - Neurobiology Laboratory *Units: 4*
- • BIOL 473 - Comparative Physiology *Units: 3*
- • BIOL 474 - Biomedical Physiology *Units: 3*
- • BIOL 475 - Global Change Biology *Units: 4*
- • BIOL 476 - General Endocrinology *Units: 3*
- • BIOL 488 - Environmental Physiology *Units: 3*
- • BIOL 490 - Independent Study *Units: 1-4*
- • BIOL 497 - Issues in Biological Science *Units: 1-3*

Biological Science: Graduate

- • BIOL 601A - Foundations of Scientific Research *Units: 1*
- • BIOL 601B - Foundations of Scientific Communication *Units: 1*
- • BIOL 602 - Preparation for Undergraduate Instruction in Biology *Units: 3*
- • BIOL 610 - Seminar in Cell & Molecular Biology *Units: 2*
- • BIOL 616 - Cell and Molecular Biology I *Units: 3*
- • BIOL 618 - Cell and Molecular Biology II *Units: 3*
- • BIOL 620 - Functional Genomics *Units: 3*
- • BIOL 622 - Advanced Molecular Techniques *Units: 3*
- • BIOL 630 - Seminar in Microbiology *Units: 2*
- • BIOL 631 - Microbial Physiology and Biochemistry *Units: 3*
- • BIOL 650 - Seminar in Ecology and Evolution *Units: 2*
- • BIOL 652 - Advances in Ecology and Evolution *Units: 3*
- • BIOL 653 - Community and Ecosystem Biology *Units: 4*
- • BIOL 655 - Phylogenetic Methods *Units: 3*
- • BIOL 657 - Environmental Experimental Analysis *Units: 4*
- • BIOL 670 - Seminar in Physiology *Units: 2*
- • BIOL 671 - Advanced Topics in Physiology *Units: 3*
- • BIOL 672 - Microscopic Methods: Quantitative Analysis of Structure & Function *Units: 3*
- • BIOL 690 - Independent Study *Units: 1-4*
- • BIOL 691 - University Thesis *Units: 1-5*
- • BIOL 698 - Internship *Units: 1-4*

Marine Science

- • MSC 403 - Marine Ecology *Units: 4*
- • MSC 405 - Marine Science Diving *Units: 3*
- • MSC 412 - Marine Birds and Mammals *Units: 4*
- • MSC 413 - Marine Ichthyology *Units: 4*
- • MSC 424 - Marine Invertebrate Zoology I *Units: 4*
- • MSC 425 - Marine Invertebrate Zoology II *Units: 3*
- • MSC 431 - Marine Botany *Units: 4*
- • MSC 435 - Physiology of Marine Algae *Units: 4*
- • MSC 441 - Geological Oceanography *Units: 4*
- • MSC 442 - Physical Oceanography *Units: 4*
- • MSC 443 - Chemical Oceanography *Units: 4*
- • MSC 444 - Biological Oceanography *Units: 4*
- • MSC 490 - Independent Study *Units: 1-4*
- • MSC 497 - Topics in Marine Sciences *Units: 1*

Marine Science: Graduate

- • MSC 601 - Library Research Methods in Marine Science *Units: 1*
- • MSC 602 - Oceanographic Instrumentation *Units: 4*
- • MSC 604 - Sampling and Experimental Design *Units: 4*
- • MSC 606 - Molecular Biological Techniques *Units: 4*
- • MSC 608 - Scientific Methods *Units: 4*
- • MSC 611 - Ecology of Marine Turtles, Birds and Mammals *Units: 4*
- • MSC 612 - Advanced Topics in Marine Vertebrates *Units: 4*
- • MSC 621 - Advanced Topics in Marine Invertebrates *Units: 4*
- • MSC 631 - Biology of Seaweeds *Units: 4*
- • MSC 633 - Advanced Topics in Marine Ecology *Units: 4*
- • MSC 634 - Advanced Biological Oceanography *Units: 4*
- • MSC 642 - Plate Tectonics *Units: 3*
- • MSC 646 - Geology of the Monterey Bay Region *Units: 4*
- • MSC 648 - Marine Benthic Habitat Mapping Techniques *Units: 4*
- • MSC 651 - Marine Geochemistry *Units: 4*
- • MSC 661 - Mixing, Estuarine and Sediment Transport *Units: 4*
- • MSC 663 - Data Analysis Techniques in Marine Science *Units: 4*
- • MSC 671 - Population Biology *Units: 3*
- • MSC 672 - Subtidal Ecology *Units: 4*
- • MSC 674 - Advanced Topics in Oceanography *Units: 4*
- • MSC 680 - Scientific Writing *Units: 3*
- • MSC 681 - Coastal Dynamics *Units: 4*
- • MSC 689 - Research in Marine Science *Units: 2*
- • MSC 690 - Independent Study *Units: 1-4*
- • MSC 691 - University Thesis *Units: 4*
- • MSC 697 - Graduate Seminar in Marine Science *Units: 2*

Biological Sciences, B.S.: Microbiology and Biomedical Lab Sciences Concentration

Biological Science, B.S. Program (120 units)

Program Description

Biology is concerned with living matter in all its forms, responses, and interactions. It deals with the study of anything that has been or is alive: microbes, fungi, plants, "protists" and all animals, including humans. The science of biology includes a large number of highly integrated sub-disciplines such as microbiology, genetics, molecular biology, ecology, evolutionary biology, physiology, systematics, and behavior. Biologists must draw upon a wide variety of academic disciplines to make observations and form conclusions, and well-trained biologists have solid backgrounds in chemistry, mathematics, computer science, statistics, physics, and the humanities, as required by graduate programs and professional schools, to meet the demands of professions in the life sciences.

The Department of Biological Sciences offers a diversified curriculum in the life sciences. Courses are designed for biology majors with specific degree objectives, for students seeking applied technical training, and for non-major students with general interest in biological subjects. Undergraduate programs will prepare students for both graduate work and for a diversity of careers. Biology majors may enter specialized or general careers in life science and find themselves working in laboratories, offices, the

field, administrative posts, academic institutions, industry, government agencies, private foundations, botanic gardens, wildlife preserves and zoos. Simply put, biologists study the living planet.

Program Learning Outcomes

Students graduating with a B.S. in Biological Science from Cal State East Bay will be able to:

1. Explain core biological concepts, including evolutionary processes, structure-function relationships across all levels of biological organization, homeostasis, information flow, matter and energy transformations, and the interactions and interconnectedness of living systems.
2. Apply quantitative reasoning to explain biological phenomena and to address biological problems.
3. Clearly communicate biological information in a variety of formats (written, oral, visual) using a style appropriate for the intended audience.
4. Apply methods of scientific inquiry by formulating testable hypotheses, collecting and analyzing data, and reporting conclusions.
5. Gather, interpret, and evaluate published scientific information.

Career Opportunities

A degree in biological science can lead to many exciting career opportunities including: • Biotechnologist • Health Professional such as Medical Doctor, Dentist, Ophthalmologist, Veterinarian, and Pharmacist • Environmental Scientist • Biology Researcher • Environmental Toxicologist • Forensic Scientist • Clinical Lab Scientist • Biology Teacher/Science Educator • College Instructor • Marine Biologist • Physical Therapist • Food Scientist • Radiation Therapy Technologist • Dietician • Science Editor • Medical Illustrator • Horticulturalist • Emergency Medical Technician • Mortician • Medical Technologist • Drug Inspector.

Features

Classes are offered on the Hayward campus in well-equipped facilities, at the Moss Landing Marine Laboratories located in Monterey Bay (via participation in a CSU Consortium which allows degree credit for MLML course), and at field locations such as Garin Reserve adjacent to campus.

A concentration in Microbiology and Biomedical Laboratory Sciences is offered to qualify students for California hospital traineeships which lead to state licensing as medical technologists and clinical lab scientists.

Preparation

A student who has successfully completed an advanced placement course in biology in high school and has earned a score of "3," "4" or "5" on the Advanced Placement Examination will be granted the following course credit:

- Score of 3, credit for non-majors introductory biology and lab (BIOL 100 or BIOL 101+102)
- Score of 4, credit for BIOL 140B only
- Score of 5, credit for BIOL 140A and BIOL 140B

Note: students earning a score of "3" or better on the AP Biology Exam will earn no more than 6 semester units toward the degree and will have satisfied GE Areas B2 and B3.

Prerequisite courses for all Biology courses must be passed with a grade of "C-" or better. All requests for Grade Forgiveness are subject to space availability, with priority given to newly enrolled students.

Bachelor's Degree Requirements

For the B.S. degree in Biological Science, the student must select a concentration to complete the major. All concentrations have the same lower and upper division core of required classes. See major requirements for concentration information.

Degree Requirements Unit-Outline

- A baccalaureate of arts degree requires a total of 120 units:
 - The major requirements consists of 75 units;
 - General Education (GE) & Graduation Requirements (GR) consists of 57 units;
 - Free Electives may consist of 0 units (*actual number of free elective units may depend on GE/GR units*).

Note: It may be possible to double-count units within the graduation requirements or that a course may satisfy both a graduation requirement and a major requirement. Students should contact their program and AACE advisors for information.

Biological Science (B.S.) Major Requirements (75 units)

Lower Division Coursework

The following 32 units of interdisciplinary coursework is required:

- BIOL 140A - Principles of Cell and Molecular Biology Units: 5 ; G.E./G.R. Area: B2, B3
- BIOL 140B - Principles of Organismal Biology Units: 5
- CHEM 111 - General Chemistry I Units: 5 ; G.E./G.R. Area: B1, B3
- CHEM 112 - General Chemistry II Units: 5
- MATH 130 - Calculus I Units: 4 ; G.E./G.R. Area: B4
- PHYS 125 - Principles of Physics I Units: 4 ; G.E./G.R. Area: B1, B3
- PHYS 126 - Principles of Physics II Units: 4 ; G.E./G.R. Area: B1, B3

Upper Division Coursework

The following 7 units of upper-division coursework is required:

- BIOL 310 - Genetic Analysis I Units: 4
- BIOL 320 - Evolutionary Biology Units: 3

Concentrations

Students must choose one (1) concentration for 36 units to complete the major:

- Biological Sciences, B.S.: Cell and Molecular Biology Concentration
- Biological Sciences, B.S.: Ecology and Evolutionary Biology Concentration

- Biological Sciences, B.S.: Forensic Science Concentration
- Biological Sciences, B.S.: Microbiology and Biomedical Lab Sciences Concentration
- Biological Sciences, B.S.: Physiology Concentration

Microbiology and Biomedical Lab Sciences Concentration

Upper Division Coursework

The following 21 units of interdisciplinary coursework is required:

- BIOL 330 - General Microbiology *Units: 5*
- BIOL 430 - Microbial Physiology and Metabolism *Units: 3*
- CHEM 331 - Organic Chemistry I *Units: 5*
- CHEM 332 - Organic Chemistry II *Units: 5*
- CHEM 340 - Survey of Biochemistry *Units: 3*

Note: Depending on the professional objective, student may opt for CHEM 441, 442 (Biochemistry I, II) with CHEM 441 counting as 3 units here in place of CHEM 340 and CHEM 442 counting as an elective.

Elective Courses

Choose a minimum of 15 units of electives from the following list of courses. *Note: BIOL 398 Co-operative Education and/or BIOL 490 Independent Study may be used for a maximum of 3 units elective credit. Enrollment in these courses requires approval by a faculty member and the Department Chair.*

- BIOL 398 - Internship *Units: 1-4*
- BIOL 431 - Medical Microbiology *Units: 5*
- BIOL 432 - Microbe-Host Interactions *Units: 3*
- BIOL 433 - Microbial Ecology *Units: 3*
- BIOL 434 - Molecular Microbiology *Units: 3*
- BIOL 442 - Epidemiology *Units: 3*
- BIOL 444 - Medical Entomology *Units: 3*
- BIOL 468 - Molecular Ecology *Units: 4*
- BIOL 490 - Independent Study *Units: 1-4*

Recommended Courses

These courses are recommended if the student objective is to apply to a Clinical Lab Scientist licensing program:

- BIOL 440 - Molecular Virology *Units: 3*
- BIOL 441 - Parasitology *Units: 3*
- BIOL 443 - Hematology *Units: 4*
- BIOL 445 - Immunology *Units: 3*
- BIOL 454 - Biology of Fungi *Units: 4*
- CHEM 220 - Quantitative Analysis *Units: 4*

Other Undergraduate Degree Requirements

In addition to major requirements, every student must also complete the University's baccalaureate requirements for graduation, which are described in the Requirements, Exams & Testing chapter of this catalog.

Department Courses Listed by Course Type

Biological Sciences Courses

Department of Biological Sciences

Go to information for this department.

Courses

Biological Science

- • BIOL 100 - Biology in the Real World *Units: 4 ; G.E./G.R. Area: B2, B3*
- • BIOL 101 - Introduction to Biology *Units: 3 ; G.E./G.R. Area: B2*
- • BIOL 102 - Introduction to Biology Lab *Units: 1 ; G.E./G.R. Area: B3*
- • BIOL 140A - Principles of Cell and Molecular Biology *Units: 5 ; G.E./G.R. Area: B2, B3*
- • BIOL 140B - Principles of Organismal Biology *Units: 5*
- • BIOL 230 - Introduction to Clinical Microbiology *Units: 4 ; G.E./G.R. Area: B2, B3*
- • BIOL 270 - Human Anatomy & Physiology I *Units: 4 ; G.E./G.R. Area: B2, B3*
- • BIOL 271 - Human Anatomy & Physiology II *Units: 4*
- • BIOL 301 - Biology Connections *Units: 3*
- • BIOL 302 - Biology Connections Laboratory *Units: 1*
- • BIOL 310 - Genetic Analysis I *Units: 4*
- • BIOL 315 - Marine Biology *Units: 4*
- • BIOL 320 - Evolutionary Biology *Units: 3*
- • BIOL 330 - General Microbiology *Units: 5*
- • BIOL 333 - Humans and Sex *Units: 3 ; G.E./G.R. Area: B6; Diversity*
- • BIOL 334 - Humans and the Living Planet *Units: 3 ; G.E./G.R. Area: B6; Sustainability*
- • BIOL 335 - Humans: Health and Disease *Units: 3 ; G.E./G.R. Area: B6; Social Justice*
- • BIOL 350 - Ecology *Units: 4*
- • BIOL 352 - Biogeography *Units: 4*
- • BIOL 356 - Freshwater Environments *Units: 4*
- • BIOL 368 - Fungi of California *Units: 3*
- • BIOL 370 - Animal Physiology *Units: 4*
- • BIOL 372 - Microscopic Methods: Quantitative Analysis of Structure & Function *Units: 3*
- • BIOL 398 - Internship *Units: 1-4*
- • BIOL 410 - Genetic Analysis II *Units: 3*
- • BIOL 415 - PCR, Sequencing and Fragment Analysis *Units: 3*
- • BIOL 420 - Cell and Molecular Biology Undergraduate Seminar *Units: 2*
- • BIOL 424 - Bioinformatics *Units: 3*
- • BIOL 425 - Techniques in Mammalian Cell Culture *Units: 3*
- • BIOL 426 - Advanced Molecular and Cell Biology *Units: 3*
- • BIOL 427 - Molecular and Cell Biology Lab *Units: 3*

- • BIOL 428 - Genomics *Units: 3*
- • BIOL 430 - Microbial Physiology and Metabolism *Units: 3*
- • BIOL 431 - Medical Microbiology *Units: 5*
- • BIOL 432 - Microbe-Host Interactions *Units: 3*
- • BIOL 433 - Microbial Ecology *Units: 3*
- • BIOL 434 - Molecular Microbiology *Units: 3*
- • BIOL 440 - Molecular Virology *Units: 3*
- • BIOL 441 - Parasitology *Units: 3*
- • BIOL 442 - Epidemiology *Units: 3*
- • BIOL 443 - Hematology *Units: 4*
- • BIOL 444 - Medical Entomology *Units: 3*
- • BIOL 445 - Immunology *Units: 3*
- • BIOL 454 - Biology of Fungi *Units: 4*
- • BIOL 455 - Vertebrate Biology *Units: 4*
- • BIOL 458 - Animal Behavior *Units: 4*
- • BIOL 460 - Ecology and Evolutionary Biology Undergraduate Seminar *Units: 2*
- • BIOL 466 - Population Biology *Units: 4*
- • BIOL 468 - Molecular Ecology *Units: 4*
- • BIOL 469 - Conservation Biology *Units: 4*
- • BIOL 470 - Animal Senses *Units: 4*
- • BIOL 471 - Neurobiology *Units: 3*
- • BIOL 472 - Neurobiology Laboratory *Units: 4*
- • BIOL 473 - Comparative Physiology *Units: 3*
- • BIOL 474 - Biomedical Physiology *Units: 3*
- • BIOL 475 - Global Change Biology *Units: 4*
- • BIOL 476 - General Endocrinology *Units: 3*
- • BIOL 488 - Environmental Physiology *Units: 3*
- • BIOL 490 - Independent Study *Units: 1-4*
- • BIOL 497 - Issues in Biological Science *Units: 1-3*

Biological Science: Graduate

- • BIOL 601A - Foundations of Scientific Research *Units: 1*
- • BIOL 601B - Foundations of Scientific Communication *Units: 1*
- • BIOL 602 - Preparation for Undergraduate Instruction in Biology *Units: 3*
- • BIOL 610 - Seminar in Cell & Molecular Biology *Units: 2*
- • BIOL 616 - Cell and Molecular Biology I *Units: 3*
- • BIOL 618 - Cell and Molecular Biology II *Units: 3*
- • BIOL 620 - Functional Genomics *Units: 3*
- • BIOL 622 - Advanced Molecular Techniques *Units: 3*
- • BIOL 630 - Seminar in Microbiology *Units: 2*
- • BIOL 631 - Microbial Physiology and Biochemistry *Units: 3*
- • BIOL 650 - Seminar in Ecology and Evolution *Units: 2*
- • BIOL 652 - Advances in Ecology and Evolution *Units: 3*
- • BIOL 653 - Community and Ecosystem Biology *Units: 4*
- • BIOL 655 - Phylogenetic Methods *Units: 3*
- • BIOL 657 - Environmental Experimental Analysis *Units: 4*
- • BIOL 670 - Seminar in Physiology *Units: 2*
- • BIOL 671 - Advanced Topics in Physiology *Units: 3*
- • BIOL 672 - Microscopic Methods: Quantitative Analysis of Structure & Function *Units: 3*
- • BIOL 690 - Independent Study *Units: 1-4*
- • BIOL 691 - University Thesis *Units: 1-5*

- • BIOL 698 - Internship *Units: 1-4*

Marine Science

- • MSC 403 - Marine Ecology *Units: 4*
- • MSC 405 - Marine Science Diving *Units: 3*
- • MSC 412 - Marine Birds and Mammals *Units: 4*
- • MSC 413 - Marine Ichthyology *Units: 4*
- • MSC 424 - Marine Invertebrate Zoology I *Units: 4*
- • MSC 425 - Marine Invertebrate Zoology II *Units: 3*
- • MSC 431 - Marine Botany *Units: 4*
- • MSC 435 - Physiology of Marine Algae *Units: 4*
- • MSC 441 - Geological Oceanography *Units: 4*
- • MSC 442 - Physical Oceanography *Units: 4*
- • MSC 443 - Chemical Oceanography *Units: 4*
- • MSC 444 - Biological Oceanography *Units: 4*
- • MSC 490 - Independent Study *Units: 1-4*
- • MSC 497 - Topics in Marine Sciences *Units: 1*

Marine Science: Graduate

- • MSC 601 - Library Research Methods in Marine Science *Units: 1*
- • MSC 602 - Oceanographic Instrumentation *Units: 4*
- • MSC 604 - Sampling and Experimental Design *Units: 4*
- • MSC 606 - Molecular Biological Techniques *Units: 4*
- • MSC 608 - Scientific Methods *Units: 4*
- • MSC 611 - Ecology of Marine Turtles, Birds and Mammals *Units: 4*
- • MSC 612 - Advanced Topics in Marine Vertebrates *Units: 4*
- • MSC 621 - Advanced Topics in Marine Invertebrates *Units: 4*
- • MSC 631 - Biology of Seaweeds *Units: 4*
- • MSC 633 - Advanced Topics in Marine Ecology *Units: 4*
- • MSC 634 - Advanced Biological Oceanography *Units: 4*
- • MSC 642 - Plate Tectonics *Units: 3*
- • MSC 646 - Geology of the Monterey Bay Region *Units: 4*
- • MSC 648 - Marine Benthic Habitat Mapping Techniques *Units: 4*
- • MSC 651 - Marine Geochemistry *Units: 4*
- • MSC 661 - Mixing, Estuarine and Sediment Transport *Units: 4*
- • MSC 663 - Data Analysis Techniques in Marine Science *Units: 4*
- • MSC 671 - Population Biology *Units: 3*
- • MSC 672 - Subtidal Ecology *Units: 4*
- • MSC 674 - Advanced Topics in Oceanography *Units: 4*
- • MSC 680 - Scientific Writing *Units: 3*
- • MSC 681 - Coastal Dynamics *Units: 4*
- • MSC 689 - Research in Marine Science *Units: 2*
- • MSC 690 - Independent Study *Units: 1-4*
- • MSC 691 - University Thesis *Units: 4*
- • MSC 697 - Graduate Seminar in Marine Science *Units: 2*

Biological Sciences, B.S.: Physiology Concentration

Biological Science, B.S. Program (120 units)

Program Description

Biology is concerned with living matter in all its forms, responses, and interactions. It deals with the study of anything that has been or is alive: microbes, fungi, plants, "protists" and all animals, including humans. The science of biology includes a large number of highly integrated sub-disciplines such as microbiology, genetics, molecular biology, ecology, evolutionary biology, physiology, systematics, and behavior. Biologists must draw upon a wide variety of academic disciplines to make observations and form conclusions, and well-trained biologists have solid backgrounds in chemistry, mathematics, computer science, statistics, physics, and the humanities, as required by graduate programs and professional schools, to meet the demands of professions in the life sciences.

The Department of Biological Sciences offers a diversified curriculum in the life sciences. Courses are designed for biology majors with specific degree objectives, for students seeking applied technical training, and for non-major students with general interest in biological subjects. Undergraduate programs will prepare students for both graduate work and for a diversity of careers. Biology majors may enter specialized or general careers in life science and find themselves working in laboratories, offices, the field, administrative posts, academic institutions, industry, government agencies, private foundations, botanic gardens, wildlife preserves and zoos. Simply put, biologists study the living planet.

Program Learning Outcomes

Students graduating with a B.S. in Biological Science from Cal State East Bay will be able to:

1. Explain core biological concepts, including evolutionary processes, structure-function relationships across all levels of biological organization, homeostasis, information flow, matter and energy transformations, and the interactions and interconnectedness of living systems.
2. Apply quantitative reasoning to explain biological phenomena and to address biological problems.
3. Clearly communicate biological information in a variety of formats (written, oral, visual) using a style appropriate for the intended audience.
4. Apply methods of scientific inquiry by formulating testable hypotheses, collecting and analyzing data, and reporting conclusions.
5. Gather, interpret, and evaluate published scientific information.

Career Opportunities

A degree in biological science can lead to many exciting career opportunities including: • Biotechnologist • Health Professional such as Medical Doctor, Dentist, Ophthalmologist, Veterinarian, and Pharmacist • Environmental Scientist • Biology Researcher • Environmental Toxicologist • Forensic Scientist • Clinical Lab Scientist • Biology Teacher/Science Educator • College Instructor • Marine Biologist • Physical Therapist • Food Scientist • Radiation Therapy Technologist • Dietician • Science Editor • Medical Illustrator • Horticulturalist • Emergency Medical Technician • Mortician • Medical Technologist • Drug Inspector.

Features

Classes are offered on the Hayward campus in well-equipped facilities, at the Moss Landing Marine Laboratories located in Monterey Bay (via participation in a CSU Consortium which allows degree credit for MLML course), and at field locations such as Garin Reserve adjacent to campus.

A concentration in Microbiology and Biomedical Laboratory Sciences is offered to qualify students for California hospital traineeships which lead to state licensing as medical technologists and clinical lab scientists.

Preparation

A student who has successfully completed an advanced placement course in biology in high school and has earned a score of "3," "4" or "5" on the Advanced Placement Examination will be granted the following course credit:

- Score of 3, credit for non-majors introductory biology and lab (BIOL 100 or BIOL 101+102)
- Score of 4, credit for BIOL 140B only
- Score of 5, credit for BIOL 140A and BIOL 140B

Note: students earning a score of "3" or better on the AP Biology Exam will earn no more than 6 semester units toward the degree and will have satisfied GE Areas B2 and B3.

Prerequisite courses for all Biology courses must be passed with a grade of "C-" or better. All requests for Grade Forgiveness are subject to space availability, with priority given to newly enrolled students.

Bachelor's Degree Requirements

For the B.S. degree in Biological Science, the student must select a concentration to complete the major. All concentrations have the same lower and upper division core of required classes. See major requirements for concentration information.

Degree Requirements Unit-Outline

- A baccalaureate of arts degree requires a total of 120 units:
 - The major requirements consists of 75 units;
 - General Education (GE) & Graduation Requirements (GR) consists of 57 units;
 - Free Electives may consist of 0 units (*actual number of free elective units may depend*

on GE/GR units).

Note: It may be possible to double-count units within the graduation requirements or that a course may satisfy both a graduation requirement and a major requirement. Students should contact their program and AACE advisors for information.

Biological Science (B.S.) Major Requirements (75 units)

Lower Division Coursework

The following 32 units of interdisciplinary coursework is required:

- BIOL 140A - Principles of Cell and Molecular Biology Units: 5 ; G.E./G.R. Area: B2, B3
- BIOL 140B - Principles of Organismal Biology Units: 5
- CHEM 111 - General Chemistry I Units: 5 ; G.E./G.R. Area: B1, B3
- CHEM 112 - General Chemistry II Units: 5
- MATH 130 - Calculus I Units: 4 ; G.E./G.R. Area: B4

- **PHYS 125 - Principles of Physics I** *Units: 4 ; G.E./G.R. Area: B1, B3*
- **PHYS 126 - Principles of Physics II** *Units: 4 ; G.E./G.R. Area: B1, B3*

Upper Division Coursework

The following 7 units of upper-division coursework is required:

- **BIOL 310 - Genetic Analysis I** *Units: 4*
- **BIOL 320 - Evolutionary Biology** *Units: 3*

Concentrations

Students must choose one (1) concentration for 36 units to complete the major:

- Biological Sciences, B.S.: Cell and Molecular Biology Concentration
- Biological Sciences, B.S.: Ecology and Evolutionary Biology Concentration
- Biological Sciences, B.S.: Forensic Science Concentration
- Biological Sciences, B.S.: Microbiology and Biomedical Lab Sciences Concentration
- Biological Sciences, B.S.: Physiology Concentration

Physiology Concentration

Upper Division Coursework

The following 18 units of interdisciplinary coursework is required:

- **BIOL 370 - Animal Physiology** *Units: 4*
- **BIOL 488 - Environmental Physiology** *Units: 3*
- **CHEM 230 - Survey of Organic Chemistry** *Units: 5*
- **CHEM 340 - Survey of Biochemistry** *Units: 3*
- **STAT 303 - Statistical Methods in Biology** *Units: 3*

Note: If the student objective requires a year of organic chemistry and/or a year of biochemistry, then enroll in CHEM 331, 332, and CHEM 441, 442; enrollment in CHEM 441 requires a minimum C- in CHEM 332. A maximum of 5 units credit for the organic chemistry requirement and a maximum 3 units credit for the biochemistry requirement will apply to this concentration curriculum.

Elective Courses

Choose 18 units of electives from the following courses. *Note: BIOL 398 Co-operative Education and/or BIOL 490 Independent Study may be used for a maximum total of 3 units elective credit. Enrollment in these courses requires approval by a faculty member and the Department Chair.*

- **BIOL 330 - General Microbiology** *Units: 5*
- **BIOL 350 - Ecology** *Units: 4*
- **BIOL 398 - Internship** *Units: 1-4*
- **BIOL 430 - Microbial Physiology and Metabolism** *Units: 3*
- **BIOL 440 - Molecular Virology** *Units: 3*

- BIOL 441 - Parasitology *Units: 3*
- BIOL 443 - Hematology *Units: 4*
- BIOL 445 - Immunology *Units: 3*
- BIOL 470 - Animal Senses *Units: 4*
- BIOL 471 - Neurobiology *Units: 3*
- BIOL 472 - Neurobiology Laboratory *Units: 4*
- BIOL 473 - Comparative Physiology *Units: 3*
- BIOL 474 - Biomedical Physiology *Units: 3*
- BIOL 475 - Global Change Biology *Units: 4*
- BIOL 476 - General Endocrinology *Units: 3*
- BIOL 490 - Independent Study *Units: 1-4*

Other Undergraduate Degree Requirements

In addition to major requirements, every student must also complete the University's baccalaureate requirements for graduation, which are described in the Requirements, Exams & Testing chapter of this catalog.

Department Courses Listed by Course Type

Biological Sciences Courses

Department of Biological Sciences

Go to information for this department.

Courses

Biological Science

- • BIOL 100 - Biology in the Real World *Units: 4 ; G.E./G.R. Area: B2, B3*
- • BIOL 101 - Introduction to Biology *Units: 3 ; G.E./G.R. Area: B2*
- • BIOL 102 - Introduction to Biology Lab *Units: 1 ; G.E./G.R. Area: B3*
- • BIOL 140A - Principles of Cell and Molecular Biology *Units: 5 ; G.E./G.R. Area: B2, B3*
- • BIOL 140B - Principles of Organismal Biology *Units: 5*
- • BIOL 230 - Introduction to Clinical Microbiology *Units: 4 ; G.E./G.R. Area: B2, B3*
- • BIOL 270 - Human Anatomy & Physiology I *Units: 4 ; G.E./G.R. Area: B2, B3*
- • BIOL 271 - Human Anatomy & Physiology II *Units: 4*
- • BIOL 301 - Biology Connections *Units: 3*
- • BIOL 302 - Biology Connections Laboratory *Units: 1*
- • BIOL 310 - Genetic Analysis I *Units: 4*
- • BIOL 315 - Marine Biology *Units: 4*
- • BIOL 320 - Evolutionary Biology *Units: 3*
- • BIOL 330 - General Microbiology *Units: 5*
- • BIOL 333 - Humans and Sex *Units: 3 ; G.E./G.R. Area: B6; Diversity*
- • BIOL 334 - Humans and the Living Planet *Units: 3 ; G.E./G.R. Area: B6; Sustainability*
- • BIOL 335 - Humans: Health and Disease *Units: 3 ; G.E./G.R. Area: B6; Social Justice*

- • BIOL 350 - Ecology *Units: 4*
- • BIOL 352 - Biogeography *Units: 4*
- • BIOL 356 - Freshwater Environments *Units: 4*
- • BIOL 368 - Fungi of California *Units: 3*
- • BIOL 370 - Animal Physiology *Units: 4*
- • BIOL 372 - Microscopic Methods: Quantitative Analysis of Structure & Function *Units: 3*
- • BIOL 398 - Internship *Units: 1-4*
- • BIOL 410 - Genetic Analysis II *Units: 3*
- • BIOL 415 - PCR, Sequencing and Fragment Analysis *Units: 3*
- • BIOL 420 - Cell and Molecular Biology Undergraduate Seminar *Units: 2*
- • BIOL 424 - Bioinformatics *Units: 3*
- • BIOL 425 - Techniques in Mammalian Cell Culture *Units: 3*
- • BIOL 426 - Advanced Molecular and Cell Biology *Units: 3*
- • BIOL 427 - Molecular and Cell Biology Lab *Units: 3*
- • BIOL 428 - Genomics *Units: 3*
- • BIOL 430 - Microbial Physiology and Metabolism *Units: 3*
- • BIOL 431 - Medical Microbiology *Units: 5*
- • BIOL 432 - Microbe-Host Interactions *Units: 3*
- • BIOL 433 - Microbial Ecology *Units: 3*
- • BIOL 434 - Molecular Microbiology *Units: 3*
- • BIOL 440 - Molecular Virology *Units: 3*
- • BIOL 441 - Parasitology *Units: 3*
- • BIOL 442 - Epidemiology *Units: 3*
- • BIOL 443 - Hematology *Units: 4*
- • BIOL 444 - Medical Entomology *Units: 3*
- • BIOL 445 - Immunology *Units: 3*
- • BIOL 454 - Biology of Fungi *Units: 4*
- • BIOL 455 - Vertebrate Biology *Units: 4*
- • BIOL 458 - Animal Behavior *Units: 4*
- • BIOL 460 - Ecology and Evolutionary Biology Undergraduate Seminar *Units: 2*
- • BIOL 466 - Population Biology *Units: 4*
- • BIOL 468 - Molecular Ecology *Units: 4*
- • BIOL 469 - Conservation Biology *Units: 4*
- • BIOL 470 - Animal Senses *Units: 4*
- • BIOL 471 - Neurobiology *Units: 3*
- • BIOL 472 - Neurobiology Laboratory *Units: 4*
- • BIOL 473 - Comparative Physiology *Units: 3*
- • BIOL 474 - Biomedical Physiology *Units: 3*
- • BIOL 475 - Global Change Biology *Units: 4*
- • BIOL 476 - General Endocrinology *Units: 3*
- • BIOL 488 - Environmental Physiology *Units: 3*
- • BIOL 490 - Independent Study *Units: 1-4*
- • BIOL 497 - Issues in Biological Science *Units: 1-3*

Biological Science: Graduate

- • BIOL 601A - Foundations of Scientific Research *Units: 1*
- • BIOL 601B - Foundations of Scientific Communication *Units: 1*
- • BIOL 602 - Preparation for Undergraduate Instruction in Biology *Units: 3*
- • BIOL 610 - Seminar in Cell & Molecular Biology *Units: 2*
- • BIOL 616 - Cell and Molecular Biology I *Units: 3*
- • BIOL 618 - Cell and Molecular Biology II *Units: 3*

- BIOL 620 - Functional Genomics *Units: 3*
- BIOL 622 - Advanced Molecular Techniques *Units: 3*
- BIOL 630 - Seminar in Microbiology *Units: 2*
- BIOL 631 - Microbial Physiology and Biochemistry *Units: 3*
- BIOL 650 - Seminar in Ecology and Evolution *Units: 2*
- BIOL 652 - Advances in Ecology and Evolution *Units: 3*
- BIOL 653 - Community and Ecosystem Biology *Units: 4*
- BIOL 655 - Phylogenetic Methods *Units: 3*
- BIOL 657 - Environmental Experimental Analysis *Units: 4*
- BIOL 670 - Seminar in Physiology *Units: 2*
- BIOL 671 - Advanced Topics in Physiology *Units: 3*
- BIOL 672 - Microscopic Methods: Quantitative Analysis of Structure & Function *Units: 3*
- BIOL 690 - Independent Study *Units: 1-4*
- BIOL 691 - University Thesis *Units: 1-5*
- BIOL 698 - Internship *Units: 1-4*

Marine Science

- MSC 403 - Marine Ecology *Units: 4*
- MSC 405 - Marine Science Diving *Units: 3*
- MSC 412 - Marine Birds and Mammals *Units: 4*
- MSC 413 - Marine Ichthyology *Units: 4*
- MSC 424 - Marine Invertebrate Zoology I *Units: 4*
- MSC 425 - Marine Invertebrate Zoology II *Units: 3*
- MSC 431 - Marine Botany *Units: 4*
- MSC 435 - Physiology of Marine Algae *Units: 4*
- MSC 441 - Geological Oceanography *Units: 4*
- MSC 442 - Physical Oceanography *Units: 4*
- MSC 443 - Chemical Oceanography *Units: 4*
- MSC 444 - Biological Oceanography *Units: 4*
- MSC 490 - Independent Study *Units: 1-4*
- MSC 497 - Topics in Marine Sciences *Units: 1*

Marine Science: Graduate

- MSC 601 - Library Research Methods in Marine Science *Units: 1*
- MSC 602 - Oceanographic Instrumentation *Units: 4*
- MSC 604 - Sampling and Experimental Design *Units: 4*
- MSC 606 - Molecular Biological Techniques *Units: 4*
- MSC 608 - Scientific Methods *Units: 4*
- MSC 611 - Ecology of Marine Turtles, Birds and Mammals *Units: 4*
- MSC 612 - Advanced Topics in Marine Vertebrates *Units: 4*
- MSC 621 - Advanced Topics in Marine Invertebrates *Units: 4*
- MSC 631 - Biology of Seaweeds *Units: 4*
- MSC 633 - Advanced Topics in Marine Ecology *Units: 4*
- MSC 634 - Advanced Biological Oceanography *Units: 4*
- MSC 642 - Plate Tectonics *Units: 3*
- MSC 646 - Geology of the Monterey Bay Region *Units: 4*
- MSC 648 - Marine Benthic Habitat Mapping Techniques *Units: 4*
- MSC 651 - Marine Geochemistry *Units: 4*
- MSC 661 - Mixing, Estuarine and Sediment Transport *Units: 4*
- MSC 663 - Data Analysis Techniques in Marine Science *Units: 4*
- MSC 671 - Population Biology *Units: 3*

- MSC 672 - Subtidal Ecology *Units: 4*
- MSC 674 - Advanced Topics in Oceanography *Units: 4*
- MSC 680 - Scientific Writing *Units: 3*
- MSC 681 - Coastal Dynamics *Units: 4*
- MSC 689 - Research in Marine Science *Units: 2*
- MSC 690 - Independent Study *Units: 1-4*
- MSC 691 - University Thesis *Units: 4*
- MSC 697 - Graduate Seminar in Marine Science *Units: 2*

Master

Biological Science, M.S.

Biological Science, M.S. Program

Program Description

The Master of Science degree in Biological Science offers students the opportunity to obtain advanced academic and research experience in specialized areas. Biological science is an exciting field offering students numerous options for rewarding careers and scientific advancement. The M.S. in Biological Science is a research-based thesis program that provides students with opportunities to develop and complete research projects to enhance advancement and career opportunities in biology. It requires 30 semester units of coursework.

Career Opportunities

Students interested in careers that involve research or interested in pursuing a Ph.D. should consider the M.S. degree in Biological Science. Examples of M.S. study areas in the department are environmental biology, ecology, population biology, marine biology, mycology, physiology, neurobiology, cell and molecular biology, microbiology, genetics, and virology.

Admission Requirements

1. The M.S. degree program in the Department of Biological Sciences is open to graduates of accredited institutions who have a four-year baccalaureate degree in any field of the biological sciences and who have achieved a GPA of at least 2.75 in all undergraduate work and an average of 3.00 in all biological science courses taken as an upper division student. Normally, all applicants should have completed undergraduate courses equivalent to those required of all biological science majors at Cal State East Bay. Applicants must have taken basic courses in biological and physical sciences and mathematics/statistics; areas omitted, if any, will be treated as course deficiencies and must be completed by the time of classification (see below).
2. In addition to filing the university application and fee, students must apply via the on-line application to the Department of Biological Sciences for admission to graduate standing in the M.S. degree program.

3. Applicants must complete the general GRE test. A print screen including the applicant's scores can be uploaded to the departmental application (see below). Generally, target scores should be in the upper 30th percentile; significant deviation from target scores may be grounds for denial of admission.
4. Applicants must write a statement of purpose explaining their reasons for wanting to obtain the master of science degree. This statement of purpose should also outline previous research experience.

Applicant files will not be reviewed or processed until the application file is complete; this is the applicant's responsibility. During the admission process, students interested in the M.S. program are encouraged to obtain information about research interests of the faculty and to contact faculty members who could potentially serve as thesis advisors.

Student Standing and Progress Toward the Degree

Conditionally Classified Graduate Status and the Degree Process

All students admitted to the Master of Science program in Biological Sciences will be admitted as "Conditionally Classified Graduate" students. Thesis research is the only allowable capstone experience for this program. There are generally five areas of research specialization as supported by individual faculty members: Cell & Molecular Biology, Ecology & Evolution, Microbiology, Physiology, and Science Education. Upon acceptance into the program the student must arrange with a faculty member to discuss and agree upon an intended thesis research plan. This includes formulation of a thesis committee of a minimum of three members (that may include one individual outside the Department of Biological Sciences), and chaired by the thesis advisor. The thesis committee will monitor the student's progress through the degree program by periodic review. The thesis committee will design a customized curriculum of coursework for the individual student and will by a thesis defense examination and evaluation of the written thesis decide whether the student meets the departmental standards for conferral of the M.S. in Biological Science. Completion of the thesis research off-site is allowable, upon review of the department and provisional thesis committee; a scenario follows. The individual student may be currently employed by a biotechnology company. By careful arrangement with the employer and CSU East Bay, thesis research may be conducted at the place of employment as supervised by the work supervisor (who will also be a member of the thesis committee). The student should resolve any question about the degree process with the departmental Graduate Program Coordinator.

Classified Graduate

Satisfaction of the University Writing Skills Requirement (UWSR) must be completed before a student can become a fully "Classified Graduate".

Advancement to Candidacy

The student must have attained (a) "Classified Graduate" standing; (b) completed at least six units of satisfactory work beyond the baccalaureate degree suitable for inclusion in an M.S. program in Biological Science as approved by the student's thesis committee; (c) received approval from the thesis committee of a thesis research plan. This plan must be formally submitted prior to enrollment in BIOL 691 thesis units.

Related Programs

The Biotechnology Certificate Program within the department is a post-baccalaureate program emphasizing molecular and cellular techniques. For more information about the Biotechnology Certificate Program refer to the Certificate in Biotechnology section of this chapter. The M.S. degree in Marine

Science is offered at Moss Landing Marine Laboratories (MLML), located on Monterey Bay, for students from Cal State East Bay and seven other California State University consortium schools. Graduate students from Cal State East Bay majoring in other areas of study may also take such courses at Moss Landing as are appropriate for their degree objectives. Contact the Biological Sciences Department for application forms and deadlines for this program. For more information on the M.S. in Marine Sciences refer to the Marine Science chapter in the graduate section of this catalog.

Research Facilities

Department facilities for student research and study include invertebrate, vertebrate, and entomology museums; greenhouse; microbiology facilities; cell culture facilities; animal rooms; molecular biology labs; microscope facilities including phase, differential interference contrast, fluorescence and confocal microscopy; and DNA sequencing and cell storage facilities. Local field opportunities may be found at a wetlands field station at the San Francisco Bay National Wildlife Refuge, the brackish and salt water marshes of the Hayward Regional Shoreline of San Francisco Bay, and a 35-acre oak-grassland preserve located immediately adjacent to the Hayward Hills campus and contiguous with Garin Regional Park (one of the East Bay Regional Parks).

Research and Financial Support

Research space is available to all "Classified Graduate" students in the M.S. in Biological Science program, usually in the thesis advisor's research lab. Limited funds for graduate research supplies are available each year from the department budget. Graduate research grants are available annually on a competitive basis through the Center for Student Research and can be used to purchase supplies or pay travel expenses for graduate research. In addition, research assistantships are available for some students through faculty research grants. Teaching assistantships may become available for a given semester. As financial aid within the department is limited, you may want to contact the Financial Aid Office regarding other assistance from the University Work-Study Program, loans, scholarships, etc.

Program Learning Outcomes

Students graduating with an M.S. in Biological Science from Cal State East Bay will be able to:

1. Demonstrate a broad and sophisticated understanding that contributes to biological concepts and principles across all levels of biological organization, from ions to ecosystems.
2. Demonstrate expertise in a specific area of biological science.
3. Independently apply the scientific method to formulate testable biological hypotheses, analyze empirical data, and synthesize the results of the analysis.
4. Clearly communicate the design and results of an observational or experimental analysis in a variety of formats, including the graduate thesis, scientific paper, scientific poster, and oral presentation.
5. Gather and evaluate primary scientific literature and judge the value of the information presented in relation to particular biological questions.

Biological Sciences Degree Requirements (30 units)

Biological Science Core Requirements

The following 2 units are required. Enrollment in both courses during the first year of the M.S. program is required.

- BIOL 601A - Foundations of Scientific Research *Units: 1*
- BIOL 601B - Foundations of Scientific Communication *Units: 1*

Research Specialization

Choose two (2) courses for 6 units from the following (requires approval of the Thesis Advisor and Thesis Committee):

- BIOL 616 - Cell and Molecular Biology I *Units: 3*
- BIOL 618 - Cell and Molecular Biology II *Units: 3*
- BIOL 631 - Microbial Physiology and Biochemistry *Units: 3*
- BIOL 652 - Advances in Ecology and Evolution *Units: 3*
- BIOL 671 - Advanced Topics in Physiology *Units: 3*

Communicating the Research Specialization

Choose one (1) course for 2 units from the following courses:

- BIOL 610 - Seminar in Cell & Molecular Biology *Units: 2*
- BIOL 630 - Seminar in Microbiology *Units: 2*
- BIOL 650 - Seminar in Ecology and Evolution *Units: 2*
- BIOL 670 - Seminar in Physiology *Units: 2*

Elective Courses

A minimum of 15 units are required from the following list as approved by the Thesis Advisor and Thesis Committee:

- BIOL 602 - Preparation for Undergraduate Instruction in Biology *Units: 3*
- BIOL 620 - Functional Genomics *Units: 3*
- BIOL 622 - Advanced Molecular Techniques *Units: 3*
- BIOL 653 - Community and Ecosystem Biology *Units: 4*
- BIOL 655 - Phylogenetic Methods *Units: 3*
- BIOL 657 - Environmental Experimental Analysis *Units: 4*
- BIOL 690 - Independent Study *Units: 1-4 (take as 3-4 units only as an elective course)*
- Substitutions may be considered subject to approval by the Thesis Advisor, Thesis Committee, and Department.

Capstone Requirement

University thesis and an oral defense for 5 units is required to complete the program.

- BIOL 691 - University Thesis *Units: 1-5*

Other Graduate & Post-Baccalaureate Degree Requirements

In addition to departmental requirements, every student must also satisfy the University requirements for graduation as described throughout this catalog. These include the 70% unit residence requirement; the five-year rule on currency of subject matter; the minimum number of units in 600-level courses; the "C" minimum grade for each graduate course; the 3.00 cumulative grade point average; and the University Writing Skills Requirement.

Note: For information on meeting the University Writing Skills Requirement, see the Testing Office website at www.csueastbay.edu/testing or call (510) 885-3661.

Department Courses Listed by Course Type

Biological Sciences Courses

Department of Biological Sciences

Go to information for this department.

Courses

Biological Science

- • BIOL 100 - Biology in the Real World *Units: 4 ; G.E./G.R. Area: B2, B3*
- • BIOL 101 - Introduction to Biology *Units: 3 ; G.E./G.R. Area: B2*
- • BIOL 102 - Introduction to Biology Lab *Units: 1 ; G.E./G.R. Area: B3*
- • BIOL 140A - Principles of Cell and Molecular Biology *Units: 5 ; G.E./G.R. Area: B2, B3*
- • BIOL 140B - Principles of Organismal Biology *Units: 5*
- • BIOL 230 - Introduction to Clinical Microbiology *Units: 4 ; G.E./G.R. Area: B2, B3*
- • BIOL 270 - Human Anatomy & Physiology I *Units: 4 ; G.E./G.R. Area: B2, B3*
- • BIOL 271 - Human Anatomy & Physiology II *Units: 4*
- • BIOL 301 - Biology Connections *Units: 3*
- • BIOL 302 - Biology Connections Laboratory *Units: 1*
- • BIOL 310 - Genetic Analysis I *Units: 4*
- • BIOL 315 - Marine Biology *Units: 4*
- • BIOL 320 - Evolutionary Biology *Units: 3*
- • BIOL 330 - General Microbiology *Units: 5*
- • BIOL 333 - Humans and Sex *Units: 3 ; G.E./G.R. Area: B6; Diversity*
- • BIOL 334 - Humans and the Living Planet *Units: 3 ; G.E./G.R. Area: B6; Sustainability*
- • BIOL 335 - Humans: Health and Disease *Units: 3 ; G.E./G.R. Area: B6; Social Justice*
- • BIOL 350 - Ecology *Units: 4*
- • BIOL 352 - Biogeography *Units: 4*
- • BIOL 356 - Freshwater Environments *Units: 4*
- • BIOL 368 - Fungi of California *Units: 3*
- • BIOL 370 - Animal Physiology *Units: 4*
- • BIOL 372 - Microscopic Methods: Quantitative Analysis of Structure & Function *Units: 3*
- • BIOL 398 - Internship *Units: 1-4*
- • BIOL 410 - Genetic Analysis II *Units: 3*
- • BIOL 415 - PCR, Sequencing and Fragment Analysis *Units: 3*

- • BIOL 420 - Cell and Molecular Biology Undergraduate Seminar *Units: 2*
- • BIOL 424 - Bioinformatics *Units: 3*
- • BIOL 425 - Techniques in Mammalian Cell Culture *Units: 3*
- • BIOL 426 - Advanced Molecular and Cell Biology *Units: 3*
- • BIOL 427 - Molecular and Cell Biology Lab *Units: 3*
- • BIOL 428 - Genomics *Units: 3*
- • BIOL 430 - Microbial Physiology and Metabolism *Units: 3*
- • BIOL 431 - Medical Microbiology *Units: 5*
- • BIOL 432 - Microbe-Host Interactions *Units: 3*
- • BIOL 433 - Microbial Ecology *Units: 3*
- • BIOL 434 - Molecular Microbiology *Units: 3*
- • BIOL 440 - Molecular Virology *Units: 3*
- • BIOL 441 - Parasitology *Units: 3*
- • BIOL 442 - Epidemiology *Units: 3*
- • BIOL 443 - Hematology *Units: 4*
- • BIOL 444 - Medical Entomology *Units: 3*
- • BIOL 445 - Immunology *Units: 3*
- • BIOL 454 - Biology of Fungi *Units: 4*
- • BIOL 455 - Vertebrate Biology *Units: 4*
- • BIOL 458 - Animal Behavior *Units: 4*
- • BIOL 460 - Ecology and Evolutionary Biology Undergraduate Seminar *Units: 2*
- • BIOL 466 - Population Biology *Units: 4*
- • BIOL 468 - Molecular Ecology *Units: 4*
- • BIOL 469 - Conservation Biology *Units: 4*
- • BIOL 470 - Animal Senses *Units: 4*
- • BIOL 471 - Neurobiology *Units: 3*
- • BIOL 472 - Neurobiology Laboratory *Units: 4*
- • BIOL 473 - Comparative Physiology *Units: 3*
- • BIOL 474 - Biomedical Physiology *Units: 3*
- • BIOL 475 - Global Change Biology *Units: 4*
- • BIOL 476 - General Endocrinology *Units: 3*
- • BIOL 488 - Environmental Physiology *Units: 3*
- • BIOL 490 - Independent Study *Units: 1-4*
- • BIOL 497 - Issues in Biological Science *Units: 1-3*

Biological Science: Graduate

- • BIOL 601A - Foundations of Scientific Research *Units: 1*
- • BIOL 601B - Foundations of Scientific Communication *Units: 1*
- • BIOL 602 - Preparation for Undergraduate Instruction in Biology *Units: 3*
- • BIOL 610 - Seminar in Cell & Molecular Biology *Units: 2*
- • BIOL 616 - Cell and Molecular Biology I *Units: 3*
- • BIOL 618 - Cell and Molecular Biology II *Units: 3*
- • BIOL 620 - Functional Genomics *Units: 3*
- • BIOL 622 - Advanced Molecular Techniques *Units: 3*
- • BIOL 630 - Seminar in Microbiology *Units: 2*
- • BIOL 631 - Microbial Physiology and Biochemistry *Units: 3*
- • BIOL 650 - Seminar in Ecology and Evolution *Units: 2*
- • BIOL 652 - Advances in Ecology and Evolution *Units: 3*
- • BIOL 653 - Community and Ecosystem Biology *Units: 4*
- • BIOL 655 - Phylogenetic Methods *Units: 3*
- • BIOL 657 - Environmental Experimental Analysis *Units: 4*

- • BIOL 670 - Seminar in Physiology *Units: 2*
- • BIOL 671 - Advanced Topics in Physiology *Units: 3*
- • BIOL 672 - Microscopic Methods: Quantitative Analysis of Structure & Function *Units: 3*
- • BIOL 690 - Independent Study *Units: 1-4*
- • BIOL 691 - University Thesis *Units: 1-5*
- • BIOL 698 - Internship *Units: 1-4*

Marine Science

- • MSC 403 - Marine Ecology *Units: 4*
- • MSC 405 - Marine Science Diving *Units: 3*
- • MSC 412 - Marine Birds and Mammals *Units: 4*
- • MSC 413 - Marine Ichthyology *Units: 4*
- • MSC 424 - Marine Invertebrate Zoology I *Units: 4*
- • MSC 425 - Marine Invertebrate Zoology II *Units: 3*
- • MSC 431 - Marine Botany *Units: 4*
- • MSC 435 - Physiology of Marine Algae *Units: 4*
- • MSC 441 - Geological Oceanography *Units: 4*
- • MSC 442 - Physical Oceanography *Units: 4*
- • MSC 443 - Chemical Oceanography *Units: 4*
- • MSC 444 - Biological Oceanography *Units: 4*
- • MSC 490 - Independent Study *Units: 1-4*
- • MSC 497 - Topics in Marine Sciences *Units: 1*

Marine Science: Graduate

- • MSC 601 - Library Research Methods in Marine Science *Units: 1*
- • MSC 602 - Oceanographic Instrumentation *Units: 4*
- • MSC 604 - Sampling and Experimental Design *Units: 4*
- • MSC 606 - Molecular Biological Techniques *Units: 4*
- • MSC 608 - Scientific Methods *Units: 4*
- • MSC 611 - Ecology of Marine Turtles, Birds and Mammals *Units: 4*
- • MSC 612 - Advanced Topics in Marine Vertebrates *Units: 4*
- • MSC 621 - Advanced Topics in Marine Invertebrates *Units: 4*
- • MSC 631 - Biology of Seaweeds *Units: 4*
- • MSC 633 - Advanced Topics in Marine Ecology *Units: 4*
- • MSC 634 - Advanced Biological Oceanography *Units: 4*
- • MSC 642 - Plate Tectonics *Units: 3*
- • MSC 646 - Geology of the Monterey Bay Region *Units: 4*
- • MSC 648 - Marine Benthic Habitat Mapping Techniques *Units: 4*
- • MSC 651 - Marine Geochemistry *Units: 4*
- • MSC 661 - Mixing, Estuarine and Sediment Transport *Units: 4*
- • MSC 663 - Data Analysis Techniques in Marine Science *Units: 4*
- • MSC 671 - Population Biology *Units: 3*
- • MSC 672 - Subtidal Ecology *Units: 4*
- • MSC 674 - Advanced Topics in Oceanography *Units: 4*
- • MSC 680 - Scientific Writing *Units: 3*
- • MSC 681 - Coastal Dynamics *Units: 4*
- • MSC 689 - Research in Marine Science *Units: 2*
- • MSC 690 - Independent Study *Units: 1-4*
- • MSC 691 - University Thesis *Units: 4*
- • MSC 697 - Graduate Seminar in Marine Science *Units: 2*

Marine Science, M.S.

Marine Science, M.S. Program

Program Description

This degree program, offered through the Department of Biological Sciences and the Department of Earth and Environmental Sciences, provides the opportunity for students to acquire a practical and theoretical education in the marine sciences to prepare them for careers as marine specialists, scientists, and teachers. The program at Moss Landing provides interdepartmental work and a field facility for advanced study in the marine sciences which cannot be duplicated on the Cal State East Bay campus.

Program Learning Outcomes

Students graduating with an M.S. in Marine Science from Cal State East Bay will be able to:

1. Demonstrate an understanding of fundamental concepts in a particular category of oceanography and marine science and
 - be able to synthesize and integrate across all of these fields, yet achieve a depth of understanding in the student's individual specialty or field of study (MLML specialties include Physical Oceanography, Biological Oceanography, Chemical Oceanography, Geological Oceanography, Marine Phycology, Marine Ichthyology, Marine Turtle, Bird and Mammal Ecology, and Marine Invertebrate Zoology.)
2. Demonstrate the ability to critically analyze scientific research, whether the student's own research, or that performed by others.
3. Pose relevant scientific hypotheses or questions that may then serve to guide thesis research.
4. Demonstrate proficiency in the design and implementation of experiments or data collection methodologies to address specific hypotheses/questions.
5. Master the skills and tools of data collection and analysis (including analytical and statistical techniques as appropriate) specific to the student's scientific field of study.
6. Demonstrate the ability to place one's own research within the larger context of relevant field of scientific study and to clearly identify the implications of this research for that field.
7. Demonstrate proficiency in oral and written communication by being able to present research clearly and concisely. This includes thoughtful and thorough oral and written presentation of their thesis and their responses to questions.

Career Opportunities

The master's of science in marine science is for students interested in careers in marine science, education and outreach, conservation, policy and management, as well in research through the pursuit of doctoral degrees related to the marine sciences.

Admission to the Program

The master's degree program in marine science is administered through either the Department of Biological Sciences or Department of Earth and Environmental Sciences, depending on the choice of the student, and the program is delivered at the Moss Landing Marine Laboratories (MLML). The prospective student must meet the admission requirements of either of these departments and of the MLML (refer to

descriptions of these department graduate programs and to the MLML program for complete information). Students will be accepted as "Conditionally Classified Graduate" students in the department of their choice upon completion of the admission requirements. The field of marine science is highly competitive, as is acceptance into the MLML master's program. Students accepted by MLML typically have a well-rounded background in science, mathematics, and research. MLML has no GPA or GRE minimums, but admitted students generally have a GPA of 3.2 or greater and GRE scores in the upper 30th percentile. Students who studied marine science or a related field as undergraduates are preferred, but such a background is not required. Prospective students must select an MLML faculty advisor(s) through whom to apply and contact them by email before applying (<https://gradprog.mlml.calstate.edu/choose-faculty-advisor>). Applicants are advised to choose the faculty member whose research is most closely aligned with his or her own area of interest within the field. For a list of faculty advisors, visit the MLML Faculty Directory. Applicants applying to the marine science program through CSUEB should check with their potential MLML faculty advisor to discuss whether additional courses are required for admittance. Newly admitted students must meet the entrance requirements of the CSU consortium campus and the MLML. The student will become a "Classified Graduate" student upon completion of MLML's requirements (below).

MLML Classification in the Program

A "Conditionally Classified Graduate" student may become a fully "Classified Graduate" student in the marine science program as set forth in the following steps:

1. Obtain an adviser at MLML and one from the science department at the home campus. Each new student in the master's program at MLML will be assigned an advisor who may or may not be the final thesis advisor.
2. Make up any coursework deficiencies in either the CSUEB department (see their regulations) and/or at MLML. Three of the following five courses are prerequisites for "Classified Graduate" standing: MSC 403 - Marine Ecology, MSC 441 - Geological Oceanography, MSC 442 - Physical Oceanography, MSC 443 - Chemical Oceanography, and MSC 444 - Biological Oceanography. Upon certification that the equivalent courses have been satisfactorily completed previously, the graduate committee may allow substitutions for these courses.
3. Students who do not receive a grade of "B" or better in the courses described in the prerequisites above taken at MLML, or who wish to substitute equivalent courses taken elsewhere regardless of the grade(s) received, must petition to have the courses accepted, or must pass a written qualifying examination given by the faculty at MLML. The examination will substitute for any equivalent examination given by home campus departments. There is no official time limit, but the exam should be taken as soon as possible; only a limited number of units taken while in "Conditionally Classified" status can be counted toward the degree. The exam may be repeated once, and must be passed before the student can be "Classified." The examination will consist of a choice of five out of six questions designed to test knowledge of the concepts and principles of oceanography, marine ecology, and statistics as covered in the courses listed under prerequisites above. It will be used to evaluate the student's background in these subject areas and the ability to write well and formulate answers logically. Each answer will be graded "pass" or "fail" by two faculty members (a third faculty member will resolve disagreements) on accuracy, content, and ability to clearly communicate. For a reading list covering the required material and further details concerning the exam, see MLML's Assistant to the Director.
4. Students must have satisfied the University Writing Skills Requirement according to Cal State East Bay standards. For information on meeting the University Writing Skills Requirement, see the Testing Office website at www.csueastbay.edu/testing or call 510.885.3661.

Advancement to Candidacy

In order to be Advanced to Candidacy, the student must have:

- Attained "Classified Graduate" standing;
- Selected a thesis problem and a thesis advisor committee. The thesis committee will be composed of at least three members, including one faculty member from MLML (who is ordinarily the thesis advisor) and, at the discretion of the home campus, a representative from that campus. The other member or members of the thesis committee may be from MLML, the home campus, or elsewhere, with the approval of the thesis advisor.

Curricular Requirements

A student becomes eligible for the master's degree in Marine Science after the following requirements have been satisfied:

1. The student has been Advanced to Candidacy.
2. The student has satisfied MLML's requirements for the degree.
3. The student has completed the following curricular requirements:
 - A minimum total of 15 semester units of 600-level courses including MSC 697: Graduate Seminar (2 units) and MSC 691: University Thesis (4 units).
 - A total of not more than 15 semester units of 300- and/or 400-level courses.
 - A total of 30 units of coursework must be completed with a grade of 'B' or better.
4. The student must have submitted a University Thesis approved by the thesis advisory committee. The thesis must conform to the rules set forth in the Cal State East Bay "University Writing Guide," available online at: www.csueastbay.edu/thesiswritingguide.
5. The student must successfully give an oral thesis defense in the form of a seminar open to the general public. The thesis advisory committee must be present, may require further oral questioning after the seminar, and will evaluate the success of the presentation.

Marine Science Major Requirements (30 units)

Note: MLML degree requirements are the same for all students regardless of the student's home CSU campus; admission, retention, and graduation procedures, however, vary by campus. All graduate students enter the program as Conditionally Classified and must satisfactorily complete MLML and CSU requirements to become Classified.

Required Courses

Complete three (3) of the five courses below:

- MSC 403 - Marine Ecology Units: 4
- MSC 441 - Geological Oceanography Units: 4
- MSC 442 - Physical Oceanography Units: 4
- MSC 443 - Chemical Oceanography Units: 4
- MSC 444 - Biological Oceanography Units: 4

Elective Courses

Complete 14 units of coursework from the courses listed below:

- MSC 405 - Marine Science Diving Units: 3

- MSC 412 - Marine Birds and Mammals *Units: 4*
- MSC 413 - Marine Ichthyology *Units: 4*
- MSC 424 - Marine Invertebrate Zoology I *Units: 4*
- MSC 425 - Marine Invertebrate Zoology II *Units: 3*
- MSC 431 - Marine Botany *Units: 4*
- MSC 435 - Physiology of Marine Algae *Units: 4*
- MSC 490 - Independent Study *Units: 1-4*
- MSC 601 - Library Research Methods in Marine Science *Units: 1*
- MSC 602 - Oceanographic Instrumentation *Units: 4*
- MSC 604 - Sampling and Experimental Design *Units: 4*
- MSC 606 - Molecular Biological Techniques *Units: 4*
- MSC 608 - Scientific Methods *Units: 4*
- MSC 611 - Ecology of Marine Turtles, Birds and Mammals *Units: 4*
- MSC 612 - Advanced Topics in Marine Vertebrates *Units: 4*
- MSC 621 - Advanced Topics in Marine Invertebrates *Units: 4*
- MSC 631 - Biology of Seaweeds *Units: 4*
- MSC 633 - Advanced Topics in Marine Ecology *Units: 4*
- MSC 634 - Advanced Biological Oceanography *Units: 4*
- MSC 642 - Plate Tectonics *Units: 3*
- MSC 646 - Geology of the Monterey Bay Region *Units: 4*
- MSC 648 - Marine Benthic Habitat Mapping Techniques *Units: 4*
- MSC 651 - Marine Geochemistry *Units: 4*
- MSC 661 - Mixing, Estuarine and Sediment Transport *Units: 4*
- MSC 663 - Data Analysis Techniques in Marine Science *Units: 4*
- MSC 671 - Population Biology *Units: 3*
- MSC 672 - Subtidal Ecology *Units: 4*
- MSC 674 - Advanced Topics in Oceanography *Units: 4*
- MSC 680 - Scientific Writing *Units: 3*
- MSC 681 - Coastal Dynamics *Units: 4*
- MSC 689 - Research in Marine Science *Units: 2*
- MSC 697 - Graduate Seminar in Marine Science *Units: 2*

Capstone Requirement

Students must complete a committee-approved university thesis for 4 units. The thesis must conform to the CSUEB thesis guidelines and meet the academic standards of the MLML graduate program. An oral thesis defense in the form of a seminar open to the general public is required. The thesis committee must be present at the oral defense, may require further questioning after the seminar, and will evaluate the success of the presentation.

- MSC 691 - University Thesis *Units: 4*

Other Graduate & Post-Baccalaureate Degree Requirements

In addition to departmental requirements, every student must also satisfy the University requirements for graduation as described throughout this catalog. These include the 70% unit residence requirement; the five-year rule on currency of subject matter; the minimum number of units in 600-level courses; the "C" minimum grade for each graduate course; the 3.00 cumulative grade point average; and the University Writing Skills Requirement.

Note: For information on meeting the University Writing Skills Requirement, see the Testing Office website at www.csueastbay.edu/testing or call (510) 885-3661.

Department Courses Listed by Course Type

Biological Sciences Courses

Department of Biological Sciences

Go to information for this department.

Courses

Biological Science

- • BIOL 100 - Biology in the Real World *Units: 4 ; G.E./G.R. Area: B2, B3*
- • BIOL 101 - Introduction to Biology *Units: 3 ; G.E./G.R. Area: B2*
- • BIOL 102 - Introduction to Biology Lab *Units: 1 ; G.E./G.R. Area: B3*
- • BIOL 140A - Principles of Cell and Molecular Biology *Units: 5 ; G.E./G.R. Area: B2, B3*
- • BIOL 140B - Principles of Organismal Biology *Units: 5*
- • BIOL 230 - Introduction to Clinical Microbiology *Units: 4 ; G.E./G.R. Area: B2, B3*
- • BIOL 270 - Human Anatomy & Physiology I *Units: 4 ; G.E./G.R. Area: B2, B3*
- • BIOL 271 - Human Anatomy & Physiology II *Units: 4*
- • BIOL 301 - Biology Connections *Units: 3*
- • BIOL 302 - Biology Connections Laboratory *Units: 1*
- • BIOL 310 - Genetic Analysis I *Units: 4*
- • BIOL 315 - Marine Biology *Units: 4*
- • BIOL 320 - Evolutionary Biology *Units: 3*
- • BIOL 330 - General Microbiology *Units: 5*
- • BIOL 333 - Humans and Sex *Units: 3 ; G.E./G.R. Area: B6; Diversity*
- • BIOL 334 - Humans and the Living Planet *Units: 3 ; G.E./G.R. Area: B6; Sustainability*
- • BIOL 335 - Humans: Health and Disease *Units: 3 ; G.E./G.R. Area: B6; Social Justice*
- • BIOL 350 - Ecology *Units: 4*
- • BIOL 352 - Biogeography *Units: 4*
- • BIOL 356 - Freshwater Environments *Units: 4*
- • BIOL 368 - Fungi of California *Units: 3*
- • BIOL 370 - Animal Physiology *Units: 4*
- • BIOL 372 - Microscopic Methods: Quantitative Analysis of Structure & Function *Units: 3*
- • BIOL 398 - Internship *Units: 1-4*
- • BIOL 410 - Genetic Analysis II *Units: 3*
- • BIOL 415 - PCR, Sequencing and Fragment Analysis *Units: 3*
- • BIOL 420 - Cell and Molecular Biology Undergraduate Seminar *Units: 2*
- • BIOL 424 - Bioinformatics *Units: 3*
- • BIOL 425 - Techniques in Mammalian Cell Culture *Units: 3*

- • BIOL 426 - Advanced Molecular and Cell Biology *Units: 3*
- • BIOL 427 - Molecular and Cell Biology Lab *Units: 3*
- • BIOL 428 - Genomics *Units: 3*
- • BIOL 430 - Microbial Physiology and Metabolism *Units: 3*
- • BIOL 431 - Medical Microbiology *Units: 5*
- • BIOL 432 - Microbe-Host Interactions *Units: 3*
- • BIOL 433 - Microbial Ecology *Units: 3*
- • BIOL 434 - Molecular Microbiology *Units: 3*
- • BIOL 440 - Molecular Virology *Units: 3*
- • BIOL 441 - Parasitology *Units: 3*
- • BIOL 442 - Epidemiology *Units: 3*
- • BIOL 443 - Hematology *Units: 4*
- • BIOL 444 - Medical Entomology *Units: 3*
- • BIOL 445 - Immunology *Units: 3*
- • BIOL 454 - Biology of Fungi *Units: 4*
- • BIOL 455 - Vertebrate Biology *Units: 4*
- • BIOL 458 - Animal Behavior *Units: 4*
- • BIOL 460 - Ecology and Evolutionary Biology Undergraduate Seminar *Units: 2*
- • BIOL 466 - Population Biology *Units: 4*
- • BIOL 468 - Molecular Ecology *Units: 4*
- • BIOL 469 - Conservation Biology *Units: 4*
- • BIOL 470 - Animal Senses *Units: 4*
- • BIOL 471 - Neurobiology *Units: 3*
- • BIOL 472 - Neurobiology Laboratory *Units: 4*
- • BIOL 473 - Comparative Physiology *Units: 3*
- • BIOL 474 - Biomedical Physiology *Units: 3*
- • BIOL 475 - Global Change Biology *Units: 4*
- • BIOL 476 - General Endocrinology *Units: 3*
- • BIOL 488 - Environmental Physiology *Units: 3*
- • BIOL 490 - Independent Study *Units: 1-4*
- • BIOL 497 - Issues in Biological Science *Units: 1-3*

Biological Science: Graduate

- • BIOL 601A - Foundations of Scientific Research *Units: 1*
- • BIOL 601B - Foundations of Scientific Communication *Units: 1*
- • BIOL 602 - Preparation for Undergraduate Instruction in Biology *Units: 3*
- • BIOL 610 - Seminar in Cell & Molecular Biology *Units: 2*
- • BIOL 616 - Cell and Molecular Biology I *Units: 3*
- • BIOL 618 - Cell and Molecular Biology II *Units: 3*
- • BIOL 620 - Functional Genomics *Units: 3*
- • BIOL 622 - Advanced Molecular Techniques *Units: 3*
- • BIOL 630 - Seminar in Microbiology *Units: 2*
- • BIOL 631 - Microbial Physiology and Biochemistry *Units: 3*
- • BIOL 650 - Seminar in Ecology and Evolution *Units: 2*
- • BIOL 652 - Advances in Ecology and Evolution *Units: 3*
- • BIOL 653 - Community and Ecosystem Biology *Units: 4*
- • BIOL 655 - Phylogenetic Methods *Units: 3*
- • BIOL 657 - Environmental Experimental Analysis *Units: 4*
- • BIOL 670 - Seminar in Physiology *Units: 2*
- • BIOL 671 - Advanced Topics in Physiology *Units: 3*
- • BIOL 672 - Microscopic Methods: Quantitative Analysis of Structure & Function *Units: 3*

- • BIOL 690 - Independent Study *Units: 1-4*
- • BIOL 691 - University Thesis *Units: 1-5*
- • BIOL 698 - Internship *Units: 1-4*

Marine Science

- • MSC 403 - Marine Ecology *Units: 4*
- • MSC 405 - Marine Science Diving *Units: 3*
- • MSC 412 - Marine Birds and Mammals *Units: 4*
- • MSC 413 - Marine Ichthyology *Units: 4*
- • MSC 424 - Marine Invertebrate Zoology I *Units: 4*
- • MSC 425 - Marine Invertebrate Zoology II *Units: 3*
- • MSC 431 - Marine Botany *Units: 4*
- • MSC 435 - Physiology of Marine Algae *Units: 4*
- • MSC 441 - Geological Oceanography *Units: 4*
- • MSC 442 - Physical Oceanography *Units: 4*
- • MSC 443 - Chemical Oceanography *Units: 4*
- • MSC 444 - Biological Oceanography *Units: 4*
- • MSC 490 - Independent Study *Units: 1-4*
- • MSC 497 - Topics in Marine Sciences *Units: 1*

Marine Science: Graduate

- • MSC 601 - Library Research Methods in Marine Science *Units: 1*
- • MSC 602 - Oceanographic Instrumentation *Units: 4*
- • MSC 604 - Sampling and Experimental Design *Units: 4*
- • MSC 606 - Molecular Biological Techniques *Units: 4*
- • MSC 608 - Scientific Methods *Units: 4*
- • MSC 611 - Ecology of Marine Turtles, Birds and Mammals *Units: 4*
- • MSC 612 - Advanced Topics in Marine Vertebrates *Units: 4*
- • MSC 621 - Advanced Topics in Marine Invertebrates *Units: 4*
- • MSC 631 - Biology of Seaweeds *Units: 4*
- • MSC 633 - Advanced Topics in Marine Ecology *Units: 4*
- • MSC 634 - Advanced Biological Oceanography *Units: 4*
- • MSC 642 - Plate Tectonics *Units: 3*
- • MSC 646 - Geology of the Monterey Bay Region *Units: 4*
- • MSC 648 - Marine Benthic Habitat Mapping Techniques *Units: 4*
- • MSC 651 - Marine Geochemistry *Units: 4*
- • MSC 661 - Mixing, Estuarine and Sediment Transport *Units: 4*
- • MSC 663 - Data Analysis Techniques in Marine Science *Units: 4*
- • MSC 671 - Population Biology *Units: 3*
- • MSC 672 - Subtidal Ecology *Units: 4*
- • MSC 674 - Advanced Topics in Oceanography *Units: 4*
- • MSC 680 - Scientific Writing *Units: 3*
- • MSC 681 - Coastal Dynamics *Units: 4*
- • MSC 689 - Research in Marine Science *Units: 2*
- • MSC 690 - Independent Study *Units: 1-4*
- • MSC 691 - University Thesis *Units: 4*
- • MSC 697 - Graduate Seminar in Marine Science *Units: 2*

Minor

Biological Sciences Minor

Minor Requirements (24 units)

The minor program is designed to provide students in other majors the opportunity to broaden their experience and understanding of the biological sciences, and may expand their educational and employment opportunities.

Required Courses

Take the following 14 units:

- BIOL 140A - Principles of Cell and Molecular Biology *Units: 5 ; G.E./G.R. Area: B2, B3*
- BIOL 140B - Principles of Organismal Biology *Units: 5*
- BIOL 310 - Genetic Analysis I *Units: 4*

Electives

Students must complete three (3) elective BIOL courses for a minimum of 10 units (5 units must be in upper-division coursework).

Department Courses Listed by Course Type

Biological Sciences Courses

Department of Biological Sciences

Go to information for this department.

Courses

Biological Science

- BIOL 100 - Biology in the Real World *Units: 4 ; G.E./G.R. Area: B2, B3*
- BIOL 101 - Introduction to Biology *Units: 3 ; G.E./G.R. Area: B2*
- BIOL 102 - Introduction to Biology Lab *Units: 1 ; G.E./G.R. Area: B3*
- BIOL 140A - Principles of Cell and Molecular Biology *Units: 5 ; G.E./G.R. Area: B2, B3*
- BIOL 140B - Principles of Organismal Biology *Units: 5*
- BIOL 230 - Introduction to Clinical Microbiology *Units: 4 ; G.E./G.R. Area: B2, B3*
- BIOL 270 - Human Anatomy & Physiology I *Units: 4 ; G.E./G.R. Area: B2, B3*
- BIOL 271 - Human Anatomy & Physiology II *Units: 4*
- BIOL 301 - Biology Connections *Units: 3*
- BIOL 302 - Biology Connections Laboratory *Units: 1*
- BIOL 310 - Genetic Analysis I *Units: 4*
- BIOL 315 - Marine Biology *Units: 4*
- BIOL 320 - Evolutionary Biology *Units: 3*
- BIOL 330 - General Microbiology *Units: 5*

- • BIOL 333 - Humans and Sex *Units: 3 ; G.E./G.R. Area: B6; Diversity*
- • BIOL 334 - Humans and the Living Planet *Units: 3 ; G.E./G.R. Area: B6; Sustainability*
- • BIOL 335 - Humans: Health and Disease *Units: 3 ; G.E./G.R. Area: B6; Social Justice*
- • BIOL 350 - Ecology *Units: 4*
- • BIOL 352 - Biogeography *Units: 4*
- • BIOL 356 - Freshwater Environments *Units: 4*
- • BIOL 368 - Fungi of California *Units: 3*
- • BIOL 370 - Animal Physiology *Units: 4*
- • BIOL 372 - Microscopic Methods: Quantitative Analysis of Structure & Function *Units: 3*
- • BIOL 398 - Internship *Units: 1-4*
- • BIOL 410 - Genetic Analysis II *Units: 3*
- • BIOL 415 - PCR, Sequencing and Fragment Analysis *Units: 3*
- • BIOL 420 - Cell and Molecular Biology Undergraduate Seminar *Units: 2*
- • BIOL 424 - Bioinformatics *Units: 3*
- • BIOL 425 - Techniques in Mammalian Cell Culture *Units: 3*
- • BIOL 426 - Advanced Molecular and Cell Biology *Units: 3*
- • BIOL 427 - Molecular and Cell Biology Lab *Units: 3*
- • BIOL 428 - Genomics *Units: 3*
- • BIOL 430 - Microbial Physiology and Metabolism *Units: 3*
- • BIOL 431 - Medical Microbiology *Units: 5*
- • BIOL 432 - Microbe-Host Interactions *Units: 3*
- • BIOL 433 - Microbial Ecology *Units: 3*
- • BIOL 434 - Molecular Microbiology *Units: 3*
- • BIOL 440 - Molecular Virology *Units: 3*
- • BIOL 441 - Parasitology *Units: 3*
- • BIOL 442 - Epidemiology *Units: 3*
- • BIOL 443 - Hematology *Units: 4*
- • BIOL 444 - Medical Entomology *Units: 3*
- • BIOL 445 - Immunology *Units: 3*
- • BIOL 454 - Biology of Fungi *Units: 4*
- • BIOL 455 - Vertebrate Biology *Units: 4*
- • BIOL 458 - Animal Behavior *Units: 4*
- • BIOL 460 - Ecology and Evolutionary Biology Undergraduate Seminar *Units: 2*
- • BIOL 466 - Population Biology *Units: 4*
- • BIOL 468 - Molecular Ecology *Units: 4*
- • BIOL 469 - Conservation Biology *Units: 4*
- • BIOL 470 - Animal Senses *Units: 4*
- • BIOL 471 - Neurobiology *Units: 3*
- • BIOL 472 - Neurobiology Laboratory *Units: 4*
- • BIOL 473 - Comparative Physiology *Units: 3*
- • BIOL 474 - Biomedical Physiology *Units: 3*
- • BIOL 475 - Global Change Biology *Units: 4*
- • BIOL 476 - General Endocrinology *Units: 3*
- • BIOL 488 - Environmental Physiology *Units: 3*
- • BIOL 490 - Independent Study *Units: 1-4*
- • BIOL 497 - Issues in Biological Science *Units: 1-3*

Biological Science: Graduate

- • BIOL 601A - Foundations of Scientific Research *Units: 1*
- • BIOL 601B - Foundations of Scientific Communication *Units: 1*
- • BIOL 602 - Preparation for Undergraduate Instruction in Biology *Units: 3*

- • BIOL 610 - Seminar in Cell & Molecular Biology *Units: 2*
- • BIOL 616 - Cell and Molecular Biology I *Units: 3*
- • BIOL 618 - Cell and Molecular Biology II *Units: 3*
- • BIOL 620 - Functional Genomics *Units: 3*
- • BIOL 622 - Advanced Molecular Techniques *Units: 3*
- • BIOL 630 - Seminar in Microbiology *Units: 2*
- • BIOL 631 - Microbial Physiology and Biochemistry *Units: 3*
- • BIOL 650 - Seminar in Ecology and Evolution *Units: 2*
- • BIOL 652 - Advances in Ecology and Evolution *Units: 3*
- • BIOL 653 - Community and Ecosystem Biology *Units: 4*
- • BIOL 655 - Phylogenetic Methods *Units: 3*
- • BIOL 657 - Environmental Experimental Analysis *Units: 4*
- • BIOL 670 - Seminar in Physiology *Units: 2*
- • BIOL 671 - Advanced Topics in Physiology *Units: 3*
- • BIOL 672 - Microscopic Methods: Quantitative Analysis of Structure & Function *Units: 3*
- • BIOL 690 - Independent Study *Units: 1-4*
- • BIOL 691 - University Thesis *Units: 1-5*
- • BIOL 698 - Internship *Units: 1-4*

Marine Science

- • MSC 403 - Marine Ecology *Units: 4*
- • MSC 405 - Marine Science Diving *Units: 3*
- • MSC 412 - Marine Birds and Mammals *Units: 4*
- • MSC 413 - Marine Ichthyology *Units: 4*
- • MSC 424 - Marine Invertebrate Zoology I *Units: 4*
- • MSC 425 - Marine Invertebrate Zoology II *Units: 3*
- • MSC 431 - Marine Botany *Units: 4*
- • MSC 435 - Physiology of Marine Algae *Units: 4*
- • MSC 441 - Geological Oceanography *Units: 4*
- • MSC 442 - Physical Oceanography *Units: 4*
- • MSC 443 - Chemical Oceanography *Units: 4*
- • MSC 444 - Biological Oceanography *Units: 4*
- • MSC 490 - Independent Study *Units: 1-4*
- • MSC 497 - Topics in Marine Sciences *Units: 1*

Marine Science: Graduate

- • MSC 601 - Library Research Methods in Marine Science *Units: 1*
- • MSC 602 - Oceanographic Instrumentation *Units: 4*
- • MSC 604 - Sampling and Experimental Design *Units: 4*
- • MSC 606 - Molecular Biological Techniques *Units: 4*
- • MSC 608 - Scientific Methods *Units: 4*
- • MSC 611 - Ecology of Marine Turtles, Birds and Mammals *Units: 4*
- • MSC 612 - Advanced Topics in Marine Vertebrates *Units: 4*
- • MSC 621 - Advanced Topics in Marine Invertebrates *Units: 4*
- • MSC 631 - Biology of Seaweeds *Units: 4*
- • MSC 633 - Advanced Topics in Marine Ecology *Units: 4*
- • MSC 634 - Advanced Biological Oceanography *Units: 4*
- • MSC 642 - Plate Tectonics *Units: 3*
- • MSC 646 - Geology of the Monterey Bay Region *Units: 4*
- • MSC 648 - Marine Benthic Habitat Mapping Techniques *Units: 4*
- • MSC 651 - Marine Geochemistry *Units: 4*

- • MSC 661 - Mixing, Estuarine and Sediment Transport *Units: 4*
- • MSC 663 - Data Analysis Techniques in Marine Science *Units: 4*
- • MSC 671 - Population Biology *Units: 3*
- • MSC 672 - Subtidal Ecology *Units: 4*
- • MSC 674 - Advanced Topics in Oceanography *Units: 4*
- • MSC 680 - Scientific Writing *Units: 3*
- • MSC 681 - Coastal Dynamics *Units: 4*
- • MSC 689 - Research in Marine Science *Units: 2*
- • MSC 690 - Independent Study *Units: 1-4*
- • MSC 691 - University Thesis *Units: 4*
- • MSC 697 - Graduate Seminar in Marine Science *Units: 2*

Certificate

Biotechnology Certificate Program

Biotechnology Certificate Program

Program Description

The Biotechnology Certificate Program (BCP) is a competitive, limited enrollment program emphasizing hands on training and theoretical instruction in the molecular life sciences. It was established in 1986 to meet the personnel requirements of the rapidly expanding Bay Area biotechnology industry. Each lab course provides a minimum of 90 hours of hands-on training and the curriculum is continually updated to meet the current needs of academic and commercial laboratories in biotechnology.

Degree Requirements

The 20-unit Biotechnology Certificate Program is designed to be completed in a typical academic year of two semesters. A certificate is awarded upon completion of a 2-day, cumulative exit exam.

Admission Requirements

- Possess a degree in any field in the biological sciences.
- Complete undergraduate courses equivalent to those required of biological science majors at CSUEB including a:
 - year of introductory biology
 - year of general chemistry
 - year of organic chemistry
 - quarter/semester of Microbiology*
 - quarter/semester of Biochemistry*
 - quarter/semester of Genetics*
 - quarter/semester of Molecular Cell Biology*
- Possess an overall GPA of 2.75 or greater.
- Possess a GPA of 3.0 or greater in all biology courses taken as an upper division student.

**Note: a strong applicant has taken these courses within the last 3 years.*

Biotechnology Certificate Requirements (20 units)

Foundation Courses

Take the following three (3) courses for 5 units:

- BIOL 601A - Foundations of Scientific Research *Units: 1*
- BIOL 601B - Foundations of Scientific Communication *Units: 1*
- BIOL 616 - Cell and Molecular Biology I *Units: 3*

Lab Courses

The following 15 units of lab coursework is required:

- BIOL 415 - PCR, Sequencing and Fragment Analysis *Units: 3*
- BIOL 424 - Bioinformatics *Units: 3*
- BIOL 425 - Techniques in Mammalian Cell Culture *Units: 3*
- BIOL 622 - Advanced Molecular Techniques *Units: 3*
- BIOL 620 - Functional Genomics *Units: 3*

Exit Exam

Completion of all required courses and a GPA of B or higher is a prerequisite for taking the exit exam. The exit exam will consist of 7 sections, one for each of the 6 required courses (excluding 601A and 601B) and one section of calculations relevant to the cell and molecular biologist. There are no units associated with the exam.

Department Courses Listed by Course Type

Biological Sciences Courses

Department of Biological Sciences

Go to information for this department.

Courses

Biological Science

- BIOL 100 - Biology in the Real World *Units: 4 ; G.E./G.R. Area: B2, B3*
- BIOL 101 - Introduction to Biology *Units: 3 ; G.E./G.R. Area: B2*
- BIOL 102 - Introduction to Biology Lab *Units: 1 ; G.E./G.R. Area: B3*
- BIOL 140A - Principles of Cell and Molecular Biology *Units: 5 ; G.E./G.R. Area: B2, B3*
- BIOL 140B - Principles of Organismal Biology *Units: 5*
- BIOL 230 - Introduction to Clinical Microbiology *Units: 4 ; G.E./G.R. Area: B2, B3*
- BIOL 270 - Human Anatomy & Physiology I *Units: 4 ; G.E./G.R. Area: B2, B3*
- BIOL 271 - Human Anatomy & Physiology II *Units: 4*

- BIOL 301 - Biology Connections Laboratory *Units: 3*
- BIOL 302 - Biology Connections Laboratory *Units: 1*
- BIOL 310 - Genetic Analysis I *Units: 4*
- BIOL 315 - Marine Biology *Units: 4*
- BIOL 320 - Evolutionary Biology *Units: 3*
- BIOL 330 - General Microbiology *Units: 5*
- BIOL 333 - Humans and Sex *Units: 3 ; G.E./G.R. Area: B6; Diversity*
- BIOL 334 - Humans and the Living Planet *Units: 3 ; G.E./G.R. Area: B6; Sustainability*
- BIOL 335 - Humans: Health and Disease *Units: 3 ; G.E./G.R. Area: B6; Social Justice*
- BIOL 350 - Ecology *Units: 4*
- BIOL 352 - Biogeography *Units: 4*
- BIOL 356 - Freshwater Environments *Units: 4*
- BIOL 368 - Fungi of California *Units: 3*
- BIOL 370 - Animal Physiology *Units: 4*
- BIOL 372 - Microscopic Methods: Quantitative Analysis of Structure & Function *Units: 3*
- BIOL 398 - Internship *Units: 1-4*
- BIOL 410 - Genetic Analysis II *Units: 3*
- BIOL 415 - PCR, Sequencing and Fragment Analysis *Units: 3*
- BIOL 420 - Cell and Molecular Biology Undergraduate Seminar *Units: 2*
- BIOL 424 - Bioinformatics *Units: 3*
- BIOL 425 - Techniques in Mammalian Cell Culture *Units: 3*
- BIOL 426 - Advanced Molecular and Cell Biology *Units: 3*
- BIOL 427 - Molecular and Cell Biology Lab *Units: 3*
- BIOL 428 - Genomics *Units: 3*
- BIOL 430 - Microbial Physiology and Metabolism *Units: 3*
- BIOL 431 - Medical Microbiology *Units: 5*
- BIOL 432 - Microbe-Host Interactions *Units: 3*
- BIOL 433 - Microbial Ecology *Units: 3*
- BIOL 434 - Molecular Microbiology *Units: 3*
- BIOL 440 - Molecular Virology *Units: 3*
- BIOL 441 - Parasitology *Units: 3*
- BIOL 442 - Epidemiology *Units: 3*
- BIOL 443 - Hematology *Units: 4*
- BIOL 444 - Medical Entomology *Units: 3*
- BIOL 445 - Immunology *Units: 3*
- BIOL 454 - Biology of Fungi *Units: 4*
- BIOL 455 - Vertebrate Biology *Units: 4*
- BIOL 458 - Animal Behavior *Units: 4*
- BIOL 460 - Ecology and Evolutionary Biology Undergraduate Seminar *Units: 2*
- BIOL 466 - Population Biology *Units: 4*
- BIOL 468 - Molecular Ecology *Units: 4*
- BIOL 469 - Conservation Biology *Units: 4*
- BIOL 470 - Animal Senses *Units: 4*
- BIOL 471 - Neurobiology *Units: 3*
- BIOL 472 - Neurobiology Laboratory *Units: 4*
- BIOL 473 - Comparative Physiology *Units: 3*
- BIOL 474 - Biomedical Physiology *Units: 3*
- BIOL 475 - Global Change Biology *Units: 4*
- BIOL 476 - General Endocrinology *Units: 3*
- BIOL 488 - Environmental Physiology *Units: 3*
- BIOL 490 - Independent Study *Units: 1-4*

- • BIOL 497 - Issues in Biological Science *Units: 1-3*

Biological Science: Graduate

- • BIOL 601A - Foundations of Scientific Research *Units: 1*
- • BIOL 601B - Foundations of Scientific Communication *Units: 1*
- • BIOL 602 - Preparation for Undergraduate Instruction in Biology *Units: 3*
- • BIOL 610 - Seminar in Cell & Molecular Biology *Units: 2*
- • BIOL 616 - Cell and Molecular Biology I *Units: 3*
- • BIOL 618 - Cell and Molecular Biology II *Units: 3*
- • BIOL 620 - Functional Genomics *Units: 3*
- • BIOL 622 - Advanced Molecular Techniques *Units: 3*
- • BIOL 630 - Seminar in Microbiology *Units: 2*
- • BIOL 631 - Microbial Physiology and Biochemistry *Units: 3*
- • BIOL 650 - Seminar in Ecology and Evolution *Units: 2*
- • BIOL 652 - Advances in Ecology and Evolution *Units: 3*
- • BIOL 653 - Community and Ecosystem Biology *Units: 4*
- • BIOL 655 - Phylogenetic Methods *Units: 3*
- • BIOL 657 - Environmental Experimental Analysis *Units: 4*
- • BIOL 670 - Seminar in Physiology *Units: 2*
- • BIOL 671 - Advanced Topics in Physiology *Units: 3*
- • BIOL 672 - Microscopic Methods: Quantitative Analysis of Structure & Function *Units: 3*
- • BIOL 690 - Independent Study *Units: 1-4*
- • BIOL 691 - University Thesis *Units: 1-5*
- • BIOL 698 - Internship *Units: 1-4*

Marine Science

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- • MSC 413 - Marine Ichthyology *Units: 4*
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- • MSC 425 - Marine Invertebrate Zoology II *Units: 3*
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Marine Science: Graduate

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- • MSC 642 - Plate Tectonics *Units: 3*
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- • MSC 674 - Advanced Topics in Oceanography *Units: 4*
- • MSC 680 - Scientific Writing *Units: 3*
- • MSC 681 - Coastal Dynamics *Units: 4*
- • MSC 689 - Research in Marine Science *Units: 2*
- • MSC 690 - Independent Study *Units: 1-4*
- • MSC 691 - University Thesis *Units: 4*
- • MSC 697 - Graduate Seminar in Marine Science *Units: 2*

Department of Chemistry and Biochemistry

The Department Office is located on the 4th Floor of the North Science building, Room 431.

We are open from 9:00 a.m. to 5:00 p.m., Monday through Friday.

Dept. Phone: (510) 885-3452

Faculty

Professors

Michael Groziak, Ph.D. Northwestern University

Chul-Hyun Kim, Ph.D. University of California, Berkeley

Anne T. Kotchevar, Ph.D. University of Minnesota, Minneapolis

Danika LeDuc, Ph.D. University of California, Berkeley

Maureen Scharberg, Ph.D. University of California, Davis

Monika Sommerhalter, Ph.D. Technische Universität Berlin (Germany)

Associate Professors

Patrick Fleming, Ph.D. The Ohio State University

Ann A. McPartland (Chair), Ph.D. Purdue University

Assistant Professors

Mark Borja, Ph.D. University of California, San Francisco

Marlin Halim, Ph.D. Columbia University

Patrick Huang, Ph.D. University of California, Berkeley

Aleksey Kocherzhenko, Ph.D. Delft University of Technology (The Netherlands)

Ruth Tinnacher, Ph.D. Colorado School of Mines

Graduate Coordinator: Chul-Hyun Kim

Department Statement

Chemistry is known as the central science because just about everything that we can touch and feel is made of chemicals. The many applications of chemistry to our lives have created a broad range of opportunities for employment. With a B.A., B.S., or M.S. degree in Chemistry, a student may find a research or technical position in the petroleum, chemical or food processing industries. B.A. and B.S. graduates with degrees in chemistry or biochemistry are also employed by pharmaceutical and biotechnology companies. In addition, graduates of chemistry or biochemistry work in sales and plant development, quality control, customer relations, and many other aspects of modern business. Combining the bachelor's degree in chemistry or biochemistry with a higher degree can lead to many unique and rewarding careers. The B.S. degree in biochemistry is particularly useful for those planning advance training in medicine, dentistry, pharmacy, or optometry. The B.A. in Chemistry and B.A. Biochemistry degrees with the Chemistry Education Concentration prepare students for entry into a single subject teaching credential program in chemistry. The B.S. and M.S. programs provide excellent preparation for the Ph.D. degree for the student who wants to make research and/or university teaching in chemistry or biochemistry a primary occupation. Chemical research is at the heart of progress that is made in the development of pharmaceuticals, agriculture, nutrition, the environment, and our understanding of nature.

In general, the outlook is bright for anyone who wishes to study chemistry or biochemistry.

About the Department

Use our university website link to learn more about what the Chemistry and Biochemistry Department has to offer.

- Advising
- Prospective Students
- American Chemical Society
- And more...

Bachelor

Biochemistry, B.A.

Biochemistry, B.A. Program (120 units)

Program Description

The Department of Chemistry and Biochemistry provides a strong education in chemistry and biochemistry that prepares its students to function and thrive in society. The department attempts to increase the problem solving and critical thinking skills of all students. Non-science students learn about the scientific and chemical aspects of everyday life that allow them to understand issues related to the environment, energy production, disease prevention, and nutrition. Students of the sciences learn the fundamentals of chemistry that control the interactions of elements and molecules. Building on an understanding of mathematics, physics, and biology, biochemistry majors receive a background in the major disciplines of chemistry including inorganic, analytical, organic, and physical, and take in-depth coursework in biochemistry. Students learn the protocols and techniques for working safely with chemicals and biochemicals. The department recognizes the importance of the pursuit of new knowledge in the development of skilled scientists and productive members of society, and encourages its students to participate in research projects and cooperative educational opportunities.

The undergraduate programs offered by the department include: Chemistry, B.S.; Biochemistry, B.S.; Chemistry, Bioanalytical and Forensics Concentration, B.S.; Chemistry, B.A.; Chemistry, Chemistry Education Concentration, B.A.; Biochemistry, B.A.; Biochemistry, Chemistry Education Concentration, B.A.; and a Chemistry Minor. Descriptions of these programs and their requirements can be found under each degree listing. The department also offers a Chemistry, M.S. degree and a Chemistry M.S., Concentration in Biochemistry. See under program listings for descriptions.

The Biochemistry, B.A. degree prepares students for employment in biochemistry, biotechnology and related fields. It can also serve as preparation for professional health-related programs such as pharmacy or medicine. The Biochemistry, B.A.: Chemistry Education Concentration is designed for students interested in teaching chemistry at the high school level but also prepares graduates to work as biochemists in industry or government. This program prepares students to enter a single subject credential program.

Mission Statement

It is imperative that CSUEB chemistry students possess sufficient theoretical and practical training in chemistry and biochemistry so that they will be able to assume the significant technical responsibilities required by the chemical and biotechnology industries that will employ them. It is important that students are not only trained in chemistry (and biochemistry), but that they will become respected scientists and research technicians. In addition, it is important that students planning for entrance into Ph.D. programs or pre-professional programs are adequately prepared.

Program Learning Outcomes

- Students graduating with a Bachelor's degree in Chemistry or Biochemistry from Cal State East Bay will be able to:
- Demonstrate knowledge in the various areas of chemistry, including inorganic chemistry, analytical chemistry, organic chemistry, physical chemistry, and biochemistry.
- Use quantitative reasoning to analyze and solve chemical problems and evaluate chemical data.
- Work effectively and safely in a laboratory environment to perform experimental procedures and operate modern chemical/biochemical instruments.
- Design, carry out, record and analyze the results of chemical and biochemical experiments.
- Communicate chemical or biochemical issues clearly.

Career Opportunities

Analytical Chemist • Biotechnologist • Biochemist • Biophysicist • Dietitian • Food and Drug Inspector • Geochemist • Health Professional • Materials Scientist • Perfumer • Petrologist • Pharmacist • Pharmaceutical Chemist • Pollution Control • Quality Control Technician • Teacher • Water Purification Chemist

Features

Laboratory equipment and instruments in the Department of Chemistry and Biochemistry include a 500 MHz nuclear magnetic resonance (NMR) spectrometer, a capillary gas chromatograph with mass-spectral detection (GC/MS), Fourier-transform infrared spectrophotometers (FTIR), an inductive coupled plasma optical emission spectrometer (ICP-OES), high performance liquid chromatograph (HP), a fast protein liquid chromatograph (FPLC), a fluorescence spectrometer, a diode-array ultraviolet-visible spectrophotometer, a plate reader, a molecular imager, thermocyclers and microwave synthesizers. A molecular modeling facility is also available for instruction and research.

The Alchemist Club, a student affiliate of the American Chemical Society, is available to students majoring in Chemistry. The club members are active in many aspects of the department, participate in fund-raising for special projects, and take interesting field trips to local industries.

Preparation and Prerequisites

Prerequisite courses for all chemistry courses must be passed with a grade of "C-" or better. Requests for Grade Forgiveness will be allowed only on a space-available basis.

Degree Requirements Unit-Outline

- The baccalaureate of arts degree requires a total of 120 units:
 - The major requirements consists of 70-78 units;
 - General Education (GE) & Graduation Requirements (GR) consists of 57 units;
 - Free Electives may consist of 0 units (*actual number of free elective units may depend on GE/GR units*).

Note: It may be possible to double-count units within the graduation requirements or that a course may satisfy both a graduation requirement and a major requirement. Students should contact their program and AACE advisors for information.

Biochemistry (B.A.) Major Requirements (70-78 units)

The Bachelor of Arts degree, major in Biochemistry, is designed to prepare students for employment in biochemistry, biotechnology, and related fields. It can also be utilized by students as a preparation for professional health-related programs, secondary school teaching, or non-traditional career paths (e.g., computer science, bioinformatics, business administration, and pharmaceutical sales). Students electing to pursue the B.A. in Biochemistry Degree could also earn a minor in another appropriate discipline such as biology.

Lower Division Core

Take the following lower-division courses for 39 units:

- BIOL 140A - Principles of Cell and Molecular Biology Units: 5 ; G.E./G.R. Area: B2, B3
- BIOL 140B - Principles of Organismal Biology Units: 5
- CHEM 111 - General Chemistry I Units: 5 ; G.E./G.R. Area: B1, B3
- CHEM 112 - General Chemistry II Units: 5
- CHEM 220 - Quantitative Analysis Units: 4
- MATH 130 - Calculus I Units: 4 ; G.E./G.R. Area: B4
- MATH 131 - Calculus II Units: 3
- And choose one (1) of the two following pairs:
Note: Students who have selected the Chemistry Education concentration must take PHYS 125 and PHYS 126.
- PHYS 125 - Principles of Physics I Units: 4 ; G.E./G.R. Area: B1, B3
- PHYS 126 - Principles of Physics II Units: 4 ; G.E./G.R. Area: B1, B3
- or
- PHYS 135 - Physics for Scientists and Engineers I Units: 4 ; G.E./G.R. Area: B1, B3
- PHYS 136 - Physics for Scientists and Engineers II Units: 4

Upper Division Core

Take the following upper-division courses for 25 units:

- CHEM 331 - Organic Chemistry I Units: 5
- CHEM 332 - Organic Chemistry II Units: 5
- CHEM 350 - Biophysical Chemistry Units: 3
- or CHEM 351 - Physical Chemistry I Units: 3
- CHEM 441 - Biochemistry I Units: 4
- CHEM 442 - Biochemistry II Units: 4
- CHEM 443 - Biochemistry Laboratory I Units: 3
- CHEM 470 - Chemical Literature Units: 1

Additional Coursework

Students NOT taking the Chemistry concentration are required to complete a minimum of 6 units of coursework as outlined below.

The following 3 units of labwork is required:

- CHEM 444 - Biochemistry Laboratory II Units: 3

Plus, choose a minimum of three (3) units from the following:

- BIOL 310 - Genetic Analysis I Units: 4
- CHEM 445 - Protein Structure Units: 3
- CHEM 446 - Nucleic Acid Chemistry Units: 3
- CHEM 447 - Major Organ Biochemistry Units: 3

Other Undergraduate Degree Requirements

In addition to major requirements, every student must also complete the University's baccalaureate requirements for graduation, which are described in the Requirements, Exams & Testing chapter of this catalog.

Department Courses Listed by Course Type

Chemistry and Biochemistry Courses

Department of Chemistry and Biochemistry

Go to information for this department.

Courses

Chemistry

- • CHEM 100 - Introduction to College Chemistry *Units: 3 ; G.E./G.R. Area: B1, B3*
- • CHEM 110 - General Chemistry for Engineering *Units: 3 ; G.E./G.R. Area: B1, B3*
- • CHEM 111 - General Chemistry I *Units: 5 ; G.E./G.R. Area: B1, B3*
- • CHEM 112 - General Chemistry II *Units: 5*
- • CHEM 161 - Basic Chemistry for the Health Sciences *Units: 4 ; G.E./G.R. Area: B1, B3*
- • CHEM 162 - Basic Biochemistry for the Health Sciences *Units: 3*
- • CHEM 165 - Basic Chemistry for Healthier Living *Units: 4 ; G.E./G.R. Area: B1, B3*
- • CHEM 220 - Quantitative Analysis *Units: 4*
- • CHEM 230 - Survey of Organic Chemistry *Units: 5*
- • CHEM 233 - Fundamentals of Organic Chemistry *Units: 3*
- • CHEM 301 - Chemistry Connections *Units: 3 ; G.E./G.R. Area: B6*
- • CHEM 302 - Chemistry Connections Laboratory *Units: 1*
- • CHEM 320 - Bioanalytical and Forensic Instrumentation *Units: 3*
- • CHEM 331 - Organic Chemistry I *Units: 5*
- • CHEM 332 - Organic Chemistry II *Units: 5*
- • CHEM 340 - Survey of Biochemistry *Units: 3*
- • CHEM 350 - Biophysical Chemistry *Units: 3*
- • CHEM 351 - Physical Chemistry I *Units: 3*
- • CHEM 352 - Physical Chemistry II *Units: 3*
- • CHEM 355 - Physical Chemistry Laboratory *Units: 2*
- • CHEM 410 - Advanced Inorganic Chemistry *Units: 4*
- • CHEM 415 - Inorganic Chemistry Laboratory *Units: 2*
- • CHEM 420 - Instrumental Analysis *Units: 3*
- • CHEM 425 - Environmental Chemistry *Units: 4*
- • CHEM 430 - Advanced Organic Chemistry *Units: 3*
- • CHEM 441 - Biochemistry I *Units: 4*
- • CHEM 442 - Biochemistry II *Units: 4*
- • CHEM 443 - Biochemistry Laboratory I *Units: 3*
- • CHEM 444 - Biochemistry Laboratory II *Units: 3*
- • CHEM 445 - Protein Structure *Units: 3*
- • CHEM 446 - Nucleic Acid Chemistry *Units: 3*
- • CHEM 447 - Major Organ Biochemistry *Units: 3*
- • CHEM 450 - Classical and Statistical Thermodynamics *Units: 3*

- • CHEM 470 - Chemical Literature *Units: 1*
- • CHEM 480 - Undergraduate Research *Units: 1-2*
- • CHEM 481 - Senior Thesis *Units: 1-2*
- • CHEM 490 - Independent Study *Units: 1-4*

Chemistry: Courses for Non-Science Majors

- • CHEM 106 - Chemistry and Society *Units: 3 ; G.E./G.R. Area: B1; Sustainability*
- • CHEM 304 - Chemistry of Wine Making *Units: 3 ; G.E./G.R. Area: B6*
- • CHEM 306 - Green Chemistry and Sustainability *Units: 3 ; G.E./G.R. Area: B6*

Chemistry: Graduate

- • CHEM 621 - Molecular Spectroscopy *Units: 3*
- • CHEM 631 - Graduate Organic Chemistry *Units: 3*
- • CHEM 641 - Graduate Biochemistry *Units: 3*
- • CHEM 642 - Protein Chemistry Techniques *Units: 3*
- • CHEM 651 - Graduate Physical Chemistry *Units: 3*
- • CHEM 652 - Computational Chemistry *Units: 3*
- • CHEM 680 - Seminar *Units: 1*
- • CHEM 681 - Research *Units: 1-2*
- • CHEM 690 - Independent Study *Units: 1-3*
- • CHEM 691 - University Thesis *Units: 2*
- • CHEM 692 - Comprehensive Exam *Units: 2*
- • CHEM 693 - Review Paper *Units: 2*
- • CHEM 697 - Issues in Chemistry *Units: 3*

Biochemistry, B.A.: Chemistry Education Concentration

Biochemistry, B.A. Program (120 units)

Program Description

The Department of Chemistry and Biochemistry provides a strong education in chemistry and biochemistry that prepares its students to function and thrive in society. The department attempts to increase the problem solving and critical thinking skills of all students. Non-science students learn about the scientific and chemical aspects of everyday life that allow them to understand issues related to the environment, energy production, disease prevention, and nutrition. Students of the sciences learn the fundamentals of chemistry that control the interactions of elements and molecules. Building on an understanding of mathematics, physics, and biology, biochemistry majors receive a background in the major disciplines of chemistry including inorganic, analytical, organic, and physical, and take in-depth coursework in biochemistry. Students learn the protocols and techniques for working safely with chemicals and biochemicals. The department recognizes the importance of the pursuit of new knowledge in the development of skilled scientists and productive members of society, and encourages its students to participate in research projects and cooperative educational opportunities.

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- Work effectively and safely in a laboratory environment to perform experimental procedures and operate modern chemical/biochemical instruments.
- Design, carry out, record and analyze the results of chemical and biochemical experiments.
- Communicate chemical or biochemical issues clearly.

Career Opportunities

Analytical Chemist • Biotechnologist • Biochemist • Biophysicist • Dietitian • Food and Drug Inspector • Geochemist • Health Professional • Materials Scientist • Perfumer • Petrologist • Pharmacist • Pharmaceutical Chemist • Pollution Control • Quality Control Technician • Teacher • Water Purification Chemist

Features

Laboratory equipment and instruments in the Department of Chemistry and Biochemistry include a 500 MHz nuclear magnetic resonance (NMR) spectrometer, a capillary gas chromatograph with mass-spectral detection (GC/MS), Fourier-transform infrared spectrophotometers (FTIR), an inductive coupled plasma optical emission spectrometer (ICP-OES), high performance liquid chromatograph (HPLC), a fast protein liquid chromatograph (FPLC), a fluorescence spectrometer, a diode-array ultraviolet-visible spectrophotometer, a plate reader, a molecular imager, thermocyclers and microwave synthesizers. A molecular modeling facility is also available for instruction and research.

The Alchemist Club, a student affiliate of the American Chemical Society, is available to students majoring in Chemistry. The club members are active in many aspects of the department, participate in fund-raising for special projects, and take interesting field trips to local industries.

Preparation and Prerequisites

Prerequisite courses for all chemistry courses must be passed with a grade of "C-" or better. Requests for Grade Forgiveness will be allowed only on a space-available basis.

Degree Requirements Unit-Outline

- The baccalaureate of arts degree requires a total of 120 units:
 - The major requirements consists of 70-78 units;
 - General Education (GE) & Graduation Requirements (GR) consists of 57 units;
 - Free Electives may consist of 0 units (*actual number of free elective units may depend on GE/GR units*).

Note: It may be possible to double-count units within the graduation requirements or that a course may satisfy both a graduation requirement and a major requirement. Students should contact their program and AACE advisors for information.

Biochemistry (B.A.) Major Requirements (70-78 units)

The Bachelor of Arts degree, major in Biochemistry, is designed to prepare students for employment in biochemistry, biotechnology, and related fields. It can also be utilized by students as a preparation for professional health-related programs, secondary school teaching, or non-traditional career paths (e.g., computer science, bioinformatics, business administration, and pharmaceutical sales). Students electing to pursue the B.A. in Biochemistry Degree could also earn a minor in another appropriate discipline such as biology.

Lower Division Core

Take the following lower-division courses for 39 units:

- BIOL 140A - Principles of Cell and Molecular Biology Units: 5 ; G.E./G.R. Area: B2, B3
- BIOL 140B - Principles of Organismal Biology Units: 5
- CHEM 111 - General Chemistry I Units: 5 ; G.E./G.R. Area: B1, B3
- CHEM 112 - General Chemistry II Units: 5
- CHEM 220 - Quantitative Analysis Units: 4
- MATH 130 - Calculus I Units: 4 ; G.E./G.R. Area: B4
- MATH 131 - Calculus II Units: 3
- And choose one (1) of the two following pairs:

Note: Students who have selected the Chemistry Education concentration must take PHYS 125 and PHYS 126.
- PHYS 125 - Principles of Physics I Units: 4 ; G.E./G.R. Area: B1, B3
- PHYS 126 - Principles of Physics II Units: 4 ; G.E./G.R. Area: B1, B3
- or
- PHYS 135 - Physics for Scientists and Engineers I Units: 4 ; G.E./G.R. Area: B1, B3
- PHYS 136 - Physics for Scientists and Engineers II Units: 4

Upper Division Core

Take the following upper-division courses for 25 units:

- CHEM 331 - Organic Chemistry I *Units: 5*
- CHEM 332 - Organic Chemistry II *Units: 5*
- CHEM 350 - Biophysical Chemistry *Units: 3*
- or CHEM 351 - Physical Chemistry I *Units: 3*
- CHEM 441 - Biochemistry I *Units: 4*
- CHEM 442 - Biochemistry II *Units: 4*
- CHEM 443 - Biochemistry Laboratory I *Units: 3*
- CHEM 470 - Chemical Literature *Units: 1*

Chemistry Education Concentration (14 units)

The Bachelor of Arts degree, major in Biochemistry with a concentration in Chemistry Education, is designed for students interested in a career teaching chemistry at the high school level, but also prepares students to work as biochemists in an industrial setting. This program will prepare graduates to enter a single subject credential program.

- CHEM 425 - Environmental Chemistry *Units: 4*
- GEOL 100 - Earth Systems Science *Units: 4 ; G.E./G.R. Area: B1, B3; Sustainability*
- PHIL 335 - Philosophy of Science *Units: 3 ; G.E./G.R. Area: C4*
- TED 301 - Introduction to Education *Units: 3*

Other Undergraduate Degree Requirements

In addition to major requirements, every student must also complete the University's baccalaureate requirements for graduation, which are described in the Requirements, Exams & Testing chapter of this catalog.

Department Courses Listed by Course Type

Chemistry and Biochemistry Courses

Department of Chemistry and Biochemistry

Go to information for this department.

Courses

Chemistry

- CHEM 100 - Introduction to College Chemistry *Units: 3 ; G.E./G.R. Area: B1, B3*
- CHEM 110 - General Chemistry for Engineering *Units: 3 ; G.E./G.R. Area: B1, B3*
- CHEM 111 - General Chemistry I *Units: 5 ; G.E./G.R. Area: B1, B3*
- CHEM 112 - General Chemistry II *Units: 5*
- CHEM 161 - Basic Chemistry for the Health Sciences *Units: 4 ; G.E./G.R. Area: B1, B3*
- CHEM 162 - Basic Biochemistry for the Health Sciences *Units: 3*

- • CHEM 165 - Basic Chemistry for Healthier Living *Units: 4 ; G.E./G.R. Area: B1, B3*
- • CHEM 220 - Quantitative Analysis *Units: 4*
- • CHEM 230 - Survey of Organic Chemistry *Units: 5*
- • CHEM 233 - Fundamentals of Organic Chemistry *Units: 3*
- • CHEM 301 - Chemistry Connections *Units: 3 ; G.E./G.R. Area: B6*
- • CHEM 302 - Chemistry Connections Laboratory *Units: 1*
- • CHEM 320 - Bioanalytical and Forensic Instrumentation *Units: 3*
- • CHEM 331 - Organic Chemistry I *Units: 5*
- • CHEM 332 - Organic Chemistry II *Units: 5*
- • CHEM 340 - Survey of Biochemistry *Units: 3*
- • CHEM 350 - Biophysical Chemistry *Units: 3*
- • CHEM 351 - Physical Chemistry I *Units: 3*
- • CHEM 352 - Physical Chemistry II *Units: 3*
- • CHEM 355 - Physical Chemistry Laboratory *Units: 2*
- • CHEM 410 - Advanced Inorganic Chemistry *Units: 4*
- • CHEM 415 - Inorganic Chemistry Laboratory *Units: 2*
- • CHEM 420 - Instrumental Analysis *Units: 3*
- • CHEM 425 - Environmental Chemistry *Units: 4*
- • CHEM 430 - Advanced Organic Chemistry *Units: 3*
- • CHEM 441 - Biochemistry I *Units: 4*
- • CHEM 442 - Biochemistry II *Units: 4*
- • CHEM 443 - Biochemistry Laboratory I *Units: 3*
- • CHEM 444 - Biochemistry Laboratory II *Units: 3*
- • CHEM 445 - Protein Structure *Units: 3*
- • CHEM 446 - Nucleic Acid Chemistry *Units: 3*
- • CHEM 447 - Major Organ Biochemistry *Units: 3*
- • CHEM 450 - Classical and Statistical Thermodynamics *Units: 3*
- • CHEM 470 - Chemical Literature *Units: 1*
- • CHEM 480 - Undergraduate Research *Units: 1-2*
- • CHEM 481 - Senior Thesis *Units: 1-2*
- • CHEM 490 - Independent Study *Units: 1-4*

Chemistry: Courses for Non-Science Majors

- • CHEM 106 - Chemistry and Society *Units: 3 ; G.E./G.R. Area: B1; Sustainability*
- • CHEM 304 - Chemistry of Wine Making *Units: 3 ; G.E./G.R. Area: B6*
- • CHEM 306 - Green Chemistry and Sustainability *Units: 3 ; G.E./G.R. Area: B6*

Chemistry: Graduate

- • CHEM 621 - Molecular Spectroscopy *Units: 3*
- • CHEM 631 - Graduate Organic Chemistry *Units: 3*
- • CHEM 641 - Graduate Biochemistry *Units: 3*
- • CHEM 642 - Protein Chemistry Techniques *Units: 3*
- • CHEM 651 - Graduate Physical Chemistry *Units: 3*
- • CHEM 652 - Computational Chemistry *Units: 3*
- • CHEM 680 - Seminar *Units: 1*
- • CHEM 681 - Research *Units: 1-2*
- • CHEM 690 - Independent Study *Units: 1-3*
- • CHEM 691 - University Thesis *Units: 2*
- • CHEM 692 - Comprehensive Exam *Units: 2*
- • CHEM 693 - Review Paper *Units: 2*
- • CHEM 697 - Issues in Chemistry *Units: 3*

Biochemistry, B.S.

Biochemistry, B.S. Program (120 units)

Program Description

The Department of Chemistry and Biochemistry provides a strong education in chemistry and biochemistry that prepares its students to function and thrive in our society. The department attempts to increase the problem solving and critical thinking skills of all students. Non-science students learn about the scientific and chemical aspects of everyday life that allow them to understand issues related to the environment, energy production, disease prevention, and nutrition. Students of the sciences learn the fundamentals of chemistry that control the interactions of elements and molecules. Building on an understanding of mathematics, physics, and biology, biochemistry majors receive a background in the major disciplines of chemistry including inorganic, analytical, organic, and physical, and take in-depth coursework in biochemistry. Students learn the protocols and techniques for working safely with chemicals and biochemicals. The department recognizes the importance of the pursuit of new knowledge in the development of skilled scientists and productive members of society, and encourages its students to participate in research projects and cooperative educational opportunities.

The undergraduate programs offered by the department include: Chemistry, B.S.; Biochemistry, B.S.; Chemistry, Bioanalytical and Forensics Concentration, B.S.; Chemistry, B.A.; Chemistry, Chemistry Education Concentration, B.A.; Biochemistry, B.A.; Biochemistry, Chemistry Education Concentration, B.A.; and a Chemistry Minor. Descriptions of these programs and their requirements can be found under each degree listing. The department also offers a Chemistry, M.S. and a Chemistry M.S. Concentration in Biochemistry. See program listings for descriptions.

The Bachelor of Science degree, major in Biochemistry, is designed to prepare students for entrance into graduate programs of biochemistry and professional health-related programs such as pharmacy, dentistry or medicine. In addition, students completing this program are prepared to secure employment in the areas of biochemistry, biotechnology and related fields. This program is intended for students desiring the highest degree of technical proficiency in this specialized area at the undergraduate level.

Mission Statement

It is imperative that CSUEB chemistry students possess sufficient theoretical and practical training in chemistry and biochemistry so that they will be able to assume the significant technical responsibilities required by the chemical and biotechnology industries that will employ them. It is important that students are not only trained in chemistry (and biochemistry), but that they will become respected scientists and research technicians. In addition, it is important that students planning for entrance into Ph.D. programs or pre-professional programs are adequately prepared.

Program Learning Outcomes

Students graduating with a Bachelor's degree in Chemistry or Biochemistry from Cal State East Bay will be able to:

- Demonstrate knowledge in the various areas of chemistry, including inorganic chemistry, analytical chemistry, organic chemistry, physical chemistry, and biochemistry.
- Use quantitative reasoning to analyze and solve chemical and biochemical problems and evaluate chemical data.

- Work effectively and safely in a laboratory environment to perform experimental procedures and operate modern chemical/biochemical instruments.
- Design, carry out, record and analyze the results of chemical and biochemical experiments.
- Communicate chemical or biochemical issues clearly.

Career Opportunities

Analytical Chemist • Biotechnologist • Biochemist • Biophysicist • Dietitian • Environmental Chemist • Food and Drug Inspector • Forensic Chemist • Geochemist • Health Professional • Materials Scientist • Organic Chemist • Perfumer • Petrologist • Pharmacist • Pharmaceutical Chemist • Pollution Control • Quality Control Technician • Teacher • Water Purification Chemist

Features

Laboratory equipment and instruments in the Department of Chemistry and Biochemistry include a 500 MHz nuclear magnetic resonance (NMR) spectrometer, a capillary gas chromatograph with mass-spectral detection (GC/MS), Fourier-transform infrared spectrophotometers (FTIR), an inductively coupled plasma- optical emission spectrometer (ICP-OES), high performance liquid chromatographs (HPLC), a fast protein liquid chromatograph (FPLC), a fluorescence spectrometer, a diode-array ultraviolet-visible spectrophotometer, a plate reader, a molecular imager, thermocyclers and microwave synthesizers. A molecular modeling facility is also available for instruction and research.

The Alchemist Club, a student affiliate of the American Chemical Society, is available to students majoring in Chemistry. The club members are active in many aspects of the department, participate in fund-raising for special projects, and take interesting field trips to local industries.

Preparation and Prerequisites

Prerequisite courses for all chemistry and biochemistry courses must be passed with a grade of "C-" or better. Requests for Grade Forgiveness will be allowed only on a space-available basis.

Other Degree Requirements

In addition to major requirements, every student must also complete the University requirements for graduation which are described in the Baccalaureate Degree Requirements chapter in this catalog. These include the General Education requirements; the University Writing Skills Requirement; and the residence, unit, and grade point average requirements.

Degree Requirements Unit-Outline

- A baccalaureate of science degree requires a total of 120 units:
 - The major requirements consists of 75 units;
 - General Education (GE) & Graduation Requirements (GR) consists of 57 units;
 - Free Electives may consist of 0 units (actual # of free elective units may depend on GE/GR units).

Note: It may be possible to double-count units within the graduation requirements or that a course may satisfy both a graduation requirement and a major requirement. Students should contact their program and AACE advisors for information.

Biochemistry (B.S.) Major Requirements (75 units)

Lower Division Core

The following 42 units of interdisciplinary coursework is required:

- BIOL 140A - Principles of Cell and Molecular Biology *Units: 5 ; G.E./G.R. Area: B2, B3*
- BIOL 140B - Principles of Organismal Biology *Units: 5*
- CHEM 111 - General Chemistry I *Units: 5 ; G.E./G.R. Area: B1, B3*
- CHEM 112 - General Chemistry II *Units: 5*
- CHEM 220 - Quantitative Analysis *Units: 4*
- MATH 130 - Calculus I *Units: 4 ; G.E./G.R. Area: B4*
- MATH 131 - Calculus II *Units: 3*
- MATH 230 - Calculus III *Units: 3*
- PHYS 135 - Physics for Scientists and Engineers I *Units: 4 ; G.E./G.R. Area: B1, B3*
- PHYS 136 - Physics for Scientists and Engineers II *Units: 4*

Upper Division Core

The following 30 units of upper-division coursework is required:

- CHEM 331 - Organic Chemistry I *Units: 5*
- CHEM 332 - Organic Chemistry II *Units: 5*
- CHEM 351 - Physical Chemistry I *Units: 3*
- CHEM 352 - Physical Chemistry II *Units: 3*
- CHEM 441 - Biochemistry I *Units: 4*
- CHEM 442 - Biochemistry II *Units: 4*
- CHEM 443 - Biochemistry Laboratory I *Units: 3*
- CHEM 444 - Biochemistry Laboratory II *Units: 3*

Elective Courses

Choose one (1) course from the following for 3 units:

- CHEM 445 - Protein Structure *Units: 3*
- CHEM 446 - Nucleic Acid Chemistry *Units: 3*
- CHEM 447 - Major Organ Biochemistry *Units: 3*

Other Undergraduate Degree Requirements

In addition to major requirements, every student must also complete the University's baccalaureate requirements for graduation, which are described in the Requirements, Exams & Testing chapter of this catalog.

Department Courses Listed by Course Type

Chemistry and Biochemistry Courses

Department of Chemistry and Biochemistry

Go to information for this department.

Courses

Chemistry

- CHEM 100 - Introduction to College Chemistry *Units: 3 ; G.E./G.R. Area: B1, B3*
- CHEM 110 - General Chemistry for Engineering *Units: 3 ; G.E./G.R. Area: B1, B3*
- CHEM 111 - General Chemistry I *Units: 5 ; G.E./G.R. Area: B1, B3*
- CHEM 112 - General Chemistry II *Units: 5*
- CHEM 161 - Basic Chemistry for the Health Sciences *Units: 4 ; G.E./G.R. Area: B1, B3*
- CHEM 162 - Basic Biochemistry for the Health Sciences *Units: 3*
- CHEM 165 - Basic Chemistry for Healthier Living *Units: 4 ; G.E./G.R. Area: B1, B3*
- CHEM 220 - Quantitative Analysis *Units: 4*
- CHEM 230 - Survey of Organic Chemistry *Units: 5*
- CHEM 233 - Fundamentals of Organic Chemistry *Units: 3*
- CHEM 301 - Chemistry Connections *Units: 3 ; G.E./G.R. Area: B6*
- CHEM 302 - Chemistry Connections Laboratory *Units: 1*
- CHEM 320 - Bioanalytical and Forensic Instrumentation *Units: 3*
- CHEM 331 - Organic Chemistry I *Units: 5*
- CHEM 332 - Organic Chemistry II *Units: 5*
- CHEM 340 - Survey of Biochemistry *Units: 3*
- CHEM 350 - Biophysical Chemistry *Units: 3*
- CHEM 351 - Physical Chemistry I *Units: 3*
- CHEM 352 - Physical Chemistry II *Units: 3*
- CHEM 355 - Physical Chemistry Laboratory *Units: 2*
- CHEM 410 - Advanced Inorganic Chemistry *Units: 4*
- CHEM 415 - Inorganic Chemistry Laboratory *Units: 2*
- CHEM 420 - Instrumental Analysis *Units: 3*
- CHEM 425 - Environmental Chemistry *Units: 4*
- CHEM 430 - Advanced Organic Chemistry *Units: 3*
- CHEM 441 - Biochemistry I *Units: 4*
- CHEM 442 - Biochemistry II *Units: 4*
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- CHEM 447 - Major Organ Biochemistry *Units: 3*
- CHEM 450 - Classical and Statistical Thermodynamics *Units: 3*
- CHEM 470 - Chemical Literature *Units: 1*
- CHEM 480 - Undergraduate Research *Units: 1-2*
- CHEM 481 - Senior Thesis *Units: 1-2*
- CHEM 490 - Independent Study *Units: 1-4*

Chemistry: Courses for Non-Science Majors

- • CHEM 106 - Chemistry and Society *Units: 3 ; G.E./G.R. Area: B1; Sustainability*
- • CHEM 304 - Chemistry of Wine Making *Units: 3 ; G.E./G.R. Area: B6*
- • CHEM 306 - Green Chemistry and Sustainability *Units: 3 ; G.E./G.R. Area: B6*

Chemistry: Graduate

- • CHEM 621 - Molecular Spectroscopy *Units: 3*
- • CHEM 631 - Graduate Organic Chemistry *Units: 3*
- • CHEM 641 - Graduate Biochemistry *Units: 3*
- • CHEM 642 - Protein Chemistry Techniques *Units: 3*
- • CHEM 651 - Graduate Physical Chemistry *Units: 3*
- • CHEM 652 - Computational Chemistry *Units: 3*
- • CHEM 680 - Seminar *Units: 1*
- • CHEM 681 - Research *Units: 1-2*
- • CHEM 690 - Independent Study *Units: 1-3*
- • CHEM 691 - University Thesis *Units: 2*
- • CHEM 692 - Comprehensive Exam *Units: 2*
- • CHEM 693 - Review Paper *Units: 2*
- • CHEM 697 - Issues in Chemistry *Units: 3*

Chemistry, B.A.

Chemistry, B.A. Program (120 units)

Program Description

The Department of Chemistry and Biochemistry provides a strong education in chemistry and biochemistry that prepares its students to function and thrive in our society. The department attempts to increase the problem solving and critical thinking skills of all students. Non-science students learn about the scientific and chemical aspects of everyday life that allow them to understand issues related to the environment, energy production, disease prevention, and nutrition. Students of the sciences learn the fundamentals of chemistry that control the interactions of elements and molecules. Chemistry majors receive extensive instruction in predicting chemical reactivity. Building on an understanding of mathematics and physics, chemistry majors receive a background in the major disciplines of chemistry including inorganic, analytical, organic, physical, and biochemistry. Students learn the protocols and techniques for working safely with chemicals. The department recognizes the importance of the pursuit of new knowledge in the development of skilled scientists and productive members of society, and encourages its students to participate in research projects and cooperative educational opportunities.

The undergraduate programs offered by the department include: Chemistry, B.S.; Biochemistry, B.S.; Chemistry, Bioanalytical and Forensics Concentration, B.S.; Chemistry, B.A.; Chemistry, Chemistry Education Concentration, B.A.; Biochemistry, B.A.; Biochemistry, Chemistry Education Concentration, B.A.; and a Chemistry Minor. Descriptions of these programs and their requirements can be found under each degree listing. The department also offers a Chemistry M.S. degree and a Chemistry, M.S. Concentration in Biochemistry. See under program listings for descriptions.

The Chemistry, B.A. degree prepares students for work as chemists in a variety of careers in industry or government. The Chemistry, Chemistry Education Concentration, B.A. program is designed for students interested in teaching at the high school level but also prepares graduates to work as chemists in industry or government.

Mission Statement

It is imperative that CSUEB chemistry students possess sufficient theoretical and practical training in chemistry and biochemistry so that they will be able to assume the significant technical responsibilities required by the chemical and biotechnology industries that will employ them. It is important that our students are not only trained in chemistry (and biochemistry), but that they will become respected scientists and research technicians. In addition, it is important that students planning for entrance into Ph.D. programs or pre-professional programs are adequately prepared.

Program Learning Outcomes

Students graduating with a Bachelor's degree in Chemistry or Biochemistry from Cal State East Bay will be able to:

- Demonstrate knowledge in the various areas of chemistry, including inorganic chemistry, analytical chemistry, organic chemistry, physical chemistry, and biochemistry.
- Use quantitative reasoning to analyze and solve chemical problems and evaluate chemical data.
- Work effectively and safely in a laboratory environment to perform experimental procedures and operate modern chemical/biochemical instruments.
- Design, carry out, record and analyze the results of chemical experiments.
- Communicate chemical or biochemical issues clearly.

Career Opportunities

Analytical Chemist • Dietitian • Environmental Chemist • Food and Drug Inspector • Geochemist • Materials Scientist • Organic Chemist • Perfumer • Petrologist • Pharmaceutical Chemist • Pollution Control • Quality Control Technician • Teacher • Water Purification Chemist

Features

Laboratory equipment and instruments in the Department of Chemistry and Biochemistry include a 500 MHz nuclear magnetic resonance (NMR) spectrometer, a capillary gas chromatograph with mass-spectral detection (GC/MS), Fourier-transform infrared spectrophotometers (FTIR), an inductively coupled plasma-optical emission spectrometer (ICP-OES), high performance liquid chromatographs (HPLC), a fast protein liquid chromatograph (FPLC), a fluorescence spectrometer, a diode-array ultraviolet-visible spectrophotometer, a plate reader, a molecular imager and microwave synthesizers. A molecular modeling facility is also available for instruction and research.

The Alchemist Club, a student affiliate of the American Chemical Society, is available to students majoring in Chemistry. The club members are active in many aspects of the department, participate in fund-raising for special projects, and take interesting field trips to local industries.

Preparation and Prerequisites

Prerequisite courses for all chemistry courses must be passed with a grade of "C-" or better. Requests for Grade Forgiveness will be allowed only on a space-available basis.

Degree Requirements Unit-Outline

- The baccalaureate degree requires a total of 120 units:
 - The major requirements consists of 55-63 units;
 - General Education (GE) & Graduation Requirements (GR) consists of 57 units;
 - Free Electives may consist of 0-8 units (*actual number of free elective units may depend on GE/GR units*).

Note: It may be possible to double-count units within the graduation requirements or that a course may satisfy both a graduation requirement and a major requirement. Students should contact their program and AACE advisors for information.

Chemistry (B.A.) Major Requirements (55-63 units)

The Bachelor of Arts degree, major in Chemistry, is intended for students who would like to use their knowledge of chemistry as a starting point for a career in medicine, molecular biology, dentistry, teaching, environmental remediation, law, or business.

Lower Division Core

The following 29 units of lower-division courses are required:

- CHEM 111 - General Chemistry I *Units: 5 ; G.E./G.R. Area: B1, B3*
- CHEM 112 - General Chemistry II *Units: 5*
- CHEM 220 - Quantitative Analysis *Units: 4*
- MATH 130 - Calculus I *Units: 4 ; G.E./G.R. Area: B4*
- MATH 131 - Calculus II *Units: 3*
- And choose one (1) of the two following pairs:

Note: Students who have selected the Chemistry Education concentration must take PHYS 125 and PHYS 126.

 - PHYS 125 - Principles of Physics I *Units: 4 ; G.E./G.R. Area: B1, B3*
 - PHYS 126 - Principles of Physics II *Units: 4 ; G.E./G.R. Area: B1, B3*
- or
- PHYS 135 - Physics for Scientists and Engineers I *Units: 4 ; G.E./G.R. Area: B1, B3*
- PHYS 136 - Physics for Scientists and Engineers II *Units: 4*

Upper Division Core

The following 20 units of upper-division courses are required:

- CHEM 320 - Bioanalytical and Forensic Instrumentation *Units: 3*
- CHEM 331 - Organic Chemistry I *Units: 5*
- CHEM 332 - Organic Chemistry II *Units: 5*
- CHEM 340 - Survey of Biochemistry *Units: 3*
- CHEM 350 - Biophysical Chemistry *Units: 3*
- CHEM 470 - Chemical Literature *Units: 1*

Elective Courses

Students not choosing the concentration in Chemistry Education coursework must complete a minimum of six (6) units from the following:

- CHEM 410 - Advanced Inorganic Chemistry *Units: 4*
- CHEM 415 - Inorganic Chemistry Laboratory *Units: 2*
- CHEM 420 - Instrumental Analysis *Units: 3*
- CHEM 425 - Environmental Chemistry *Units: 4*
- CHEM 430 - Advanced Organic Chemistry *Units: 3*

Other Undergraduate Degree Requirements

In addition to major requirements, every student must also complete the University's baccalaureate requirements for graduation, which are described in the Requirements, Exams & Testing chapter of this catalog.

Department Courses Listed by Course Type

Chemistry and Biochemistry Courses

Department of Chemistry and Biochemistry

Go to information for this department.

Courses

Chemistry

- • CHEM 100 - Introduction to College Chemistry *Units: 3 ; G.E./G.R. Area: B1, B3*
- • CHEM 110 - General Chemistry for Engineering *Units: 3 ; G.E./G.R. Area: B1, B3*
- • CHEM 111 - General Chemistry I *Units: 5 ; G.E./G.R. Area: B1, B3*
- • CHEM 112 - General Chemistry II *Units: 5*
- • CHEM 161 - Basic Chemistry for the Health Sciences *Units: 4 ; G.E./G.R. Area: B1, B3*
- • CHEM 162 - Basic Biochemistry for the Health Sciences *Units: 3*
- • CHEM 165 - Basic Chemistry for Healthier Living *Units: 4 ; G.E./G.R. Area: B1, B3*
- • CHEM 220 - Quantitative Analysis *Units: 4*
- • CHEM 230 - Survey of Organic Chemistry *Units: 5*
- • CHEM 233 - Fundamentals of Organic Chemistry *Units: 3*
- • CHEM 301 - Chemistry Connections *Units: 3 ; G.E./G.R. Area: B6*
- • CHEM 302 - Chemistry Connections Laboratory *Units: 1*
- • CHEM 320 - Bioanalytical and Forensic Instrumentation *Units: 3*
- • CHEM 331 - Organic Chemistry I *Units: 5*
- • CHEM 332 - Organic Chemistry II *Units: 5*
- • CHEM 340 - Survey of Biochemistry *Units: 3*
- • CHEM 350 - Biophysical Chemistry *Units: 3*
- • CHEM 351 - Physical Chemistry I *Units: 3*
- • CHEM 352 - Physical Chemistry II *Units: 3*
- • CHEM 355 - Physical Chemistry Laboratory *Units: 2*
- • CHEM 410 - Advanced Inorganic Chemistry *Units: 4*
- • CHEM 415 - Inorganic Chemistry Laboratory *Units: 2*
- • CHEM 420 - Instrumental Analysis *Units: 3*
- • CHEM 425 - Environmental Chemistry *Units: 4*

- CHEM 430 - Advanced Organic Chemistry *Units: 3*
- CHEM 441 - Biochemistry I *Units: 4*
- CHEM 442 - Biochemistry II *Units: 4*
- CHEM 443 - Biochemistry Laboratory I *Units: 3*
- CHEM 444 - Biochemistry Laboratory II *Units: 3*
- CHEM 445 - Protein Structure *Units: 3*
- CHEM 446 - Nucleic Acid Chemistry *Units: 3*
- CHEM 447 - Major Organ Biochemistry *Units: 3*
- CHEM 450 - Classical and Statistical Thermodynamics *Units: 3*
- CHEM 470 - Chemical Literature *Units: 1*
- CHEM 480 - Undergraduate Research *Units: 1-2*
- CHEM 481 - Senior Thesis *Units: 1-2*
- CHEM 490 - Independent Study *Units: 1-4*

Chemistry: Courses for Non-Science Majors

- CHEM 106 - Chemistry and Society *Units: 3 ; G.E./G.R. Area: B1; Sustainability*
- CHEM 304 - Chemistry of Wine Making *Units: 3 ; G.E./G.R. Area: B6*
- CHEM 306 - Green Chemistry and Sustainability *Units: 3 ; G.E./G.R. Area: B6*

Chemistry: Graduate

- CHEM 621 - Molecular Spectroscopy *Units: 3*
- CHEM 631 - Graduate Organic Chemistry *Units: 3*
- CHEM 641 - Graduate Biochemistry *Units: 3*
- CHEM 642 - Protein Chemistry Techniques *Units: 3*
- CHEM 651 - Graduate Physical Chemistry *Units: 3*
- CHEM 652 - Computational Chemistry *Units: 3*
- CHEM 680 - Seminar *Units: 1*
- CHEM 681 - Research *Units: 1-2*
- CHEM 690 - Independent Study *Units: 1-3*
- CHEM 691 - University Thesis *Units: 2*
- CHEM 692 - Comprehensive Exam *Units: 2*
- CHEM 693 - Review Paper *Units: 2*
- CHEM 697 - Issues in Chemistry *Units: 3*

Chemistry, B.A.: Chemistry Education Concentration

Chemistry, B.A. Program (120 units)

Program Description

The Department of Chemistry and Biochemistry provides a strong education in chemistry and biochemistry that prepares its students to function and thrive in our society. The department attempts to increase the problem solving and critical thinking skills of all students. Non-science students learn about the scientific and chemical aspects of everyday life that allow them to understand issues related to the environment, energy production, disease prevention, and nutrition. Students of the sciences learn the fundamentals of chemistry that control the interactions of elements and molecules. Chemistry majors receive extensive instruction in predicting chemical reactivity. Building on an understanding of mathematics and physics, chemistry majors receive a background in the major disciplines of chemistry including inorganic, analytical, organic, physical, and biochemistry. Students learn the protocols and techniques for working safely with chemicals. The department recognizes the importance of the pursuit of

new knowledge in the development of skilled scientists and productive members of society, and encourages its students to participate in research projects and cooperative educational opportunities.

The undergraduate programs offered by the department include: Chemistry, B.S.; Biochemistry, B.S.; Chemistry, Bioanalytical and Forensics Concentration, B.S.; Chemistry, B.A.; Chemistry, Chemistry Education Concentration, B.A.; Biochemistry, B.A.; Biochemistry, Chemistry Education Concentration, B.A.; and a Chemistry Minor. Descriptions of these programs and their requirements can be found under each degree listing. The department also offers a Chemistry M.S. degree and a Chemistry, M.S. Concentration in Biochemistry. See under program listings for descriptions.

The Chemistry, B.A. degree prepares students for work as chemists in a variety of careers in industry or government. The Chemistry, Chemistry Education Concentration, B.A. program is designed for students interested in teaching at the high school level but also prepares graduates to work as chemists in industry or government.

Mission Statement

It is imperative that CSUEB chemistry students possess sufficient theoretical and practical training in chemistry and biochemistry so that they will be able to assume the significant technical responsibilities required by the chemical and biotechnology industries that will employ them. It is important that our students are not only trained in chemistry (and biochemistry), but that they will become respected scientists and research technicians. In addition, it is important that students planning for entrance into Ph.D. programs or pre-professional programs are adequately prepared.

Program Learning Outcomes

Students graduating with a Bachelor's degree in Chemistry or Biochemistry from Cal State East Bay will be able to:

- Demonstrate knowledge in the various areas of chemistry, including inorganic chemistry, analytical chemistry, organic chemistry, physical chemistry, and biochemistry.
- Use quantitative reasoning to analyze and solve chemical problems and evaluate chemical data.
- Work effectively and safely in a laboratory environment to perform experimental procedures and operate modern chemical/biochemical instruments.
- Design, carry out, record and analyze the results of chemical experiments.
- Communicate chemical or biochemical issues clearly.

Career Opportunities

Analytical Chemist • Dietitian • Environmental Chemist • Food and Drug Inspector • Geochemist • Materials Scientist • Organic Chemist • Perfumer • Petrologist • Pharmaceutical Chemist • Pollution Control • Quality Control Technician • Teacher • Water Purification Chemist

Features

Laboratory equipment and instruments in the Department of Chemistry and Biochemistry include a 500 MHz nuclear magnetic resonance (NMR) spectrometer, a capillary gas chromatograph with mass-spectral detection (GC/MS), Fourier-transform infrared spectrophotometers (FTIR), an inductively coupled plasma-optical emission spectrometer (ICP-OES), high performance liquid chromatographs (HPLC), a fast protein liquid chromatograph (FPLC), a fluorescence spectrometer, a diode-array ultraviolet-visible

spectrophotometer, a plate reader, a molecular imager and microwave synthesizers. A molecular modeling facility is also available for instruction and research.

The Alchemist Club, a student affiliate of the American Chemical Society, is available to students majoring in Chemistry. The club members are active in many aspects of the department, participate in fund-raising for special projects, and take interesting field trips to local industries.

Preparation and Prerequisites

Prerequisite courses for all chemistry courses must be passed with a grade of "C-" or better. Requests for Grade Forgiveness will be allowed only on a space-available basis.

Degree Requirements Unit-Outline

- The baccalaureate degree requires a total of 120 units:
 - The major requirements consists of 55-63 units;
 - General Education (GE) & Graduation Requirements (GR) consists of 57 units;
 - Free Electives may consist of 0-8 units (*actual number of free elective units may depend on GE/GR units*).

Note: It may be possible to double-count units within the graduation requirements or that a course may satisfy both a graduation requirement and a major requirement. Students should contact their program and AAC&E advisors for information.

Chemistry (B.A.) Major Requirements (55-63 units)

The Bachelor of Arts degree, major in Chemistry, is intended for students who would like to use their knowledge of chemistry as a starting point for a career in medicine, molecular biology, dentistry, teaching, environmental remediation, law, or business.

Lower Division Core

The following 29 units of lower-division courses are required:

- CHEM 111 - General Chemistry I Units: 5 ; G.E./G.R. Area: B1, B3
- CHEM 112 - General Chemistry II Units: 5
- CHEM 220 - Quantitative Analysis Units: 4
- MATH 130 - Calculus I Units: 4 ; G.E./G.R. Area: B4
- MATH 131 - Calculus II Units: 3
- And choose one (1) of the two following pairs:

Note: Students who have selected the Chemistry Education concentration must take PHYS 125 and PHYS 126.

- PHYS 125 - Principles of Physics I Units: 4 ; G.E./G.R. Area: B1, B3
- PHYS 126 - Principles of Physics II Units: 4 ; G.E./G.R. Area: B1, B3
- or
- PHYS 135 - Physics for Scientists and Engineers I Units: 4 ; G.E./G.R. Area: B1, B3
- PHYS 136 - Physics for Scientists and Engineers II Units: 4

Upper Division Core

The following 20 units of upper-division courses are required:

- CHEM 320 - Bioanalytical and Forensic Instrumentation *Units: 3*
- CHEM 331 - Organic Chemistry I *Units: 5*
- CHEM 332 - Organic Chemistry II *Units: 5*
- CHEM 340 - Survey of Biochemistry *Units: 3*
- CHEM 350 - Biophysical Chemistry *Units: 3*
- CHEM 470 - Chemical Literature *Units: 1*

Chemistry Education Concentration

The Bachelor of Arts degree, major in Chemistry with a 14-unit concentration in Chemistry Education, is designed for students interested in a career teaching chemistry at the high school level, but also prepares students to work in the chemical industry. This program prepares graduates to enter a single subject credential program.

- BIOL 100 - Biology in the Real World *Units: 4 ; G.E./G.R. Area: B2, B3*
- GEOL 100 - Earth Systems Science *Units: 4 ; G.E./G.R. Area: B1, B3; Sustainability*
- PHIL 335 - Philosophy of Science *Units: 3 ; G.E./G.R. Area: C4*
- TED 301 - Introduction to Education *Units: 3*

Other Undergraduate Degree Requirements

In addition to major requirements, every student must also complete the University's baccalaureate requirements for graduation, which are described in the Requirements, Exams & Testing chapter of this catalog.

Department Courses Listed by Course Type

Chemistry and Biochemistry Courses

Department of Chemistry and Biochemistry

Go to information for this department.

Courses

Chemistry

- CHEM 100 - Introduction to College Chemistry *Units: 3 ; G.E./G.R. Area: B1, B3*
- CHEM 110 - General Chemistry for Engineering *Units: 3 ; G.E./G.R. Area: B1, B3*
- CHEM 111 - General Chemistry I *Units: 5 ; G.E./G.R. Area: B1, B3*
- CHEM 112 - General Chemistry II *Units: 5*
- CHEM 161 - Basic Chemistry for the Health Sciences *Units: 4 ; G.E./G.R. Area: B1, B3*
- CHEM 162 - Basic Biochemistry for the Health Sciences *Units: 3*
- CHEM 165 - Basic Chemistry for Healthier Living *Units: 4 ; G.E./G.R. Area: B1, B3*
- CHEM 220 - Quantitative Analysis *Units: 4*

- • CHEM 230 - Survey of Organic Chemistry *Units: 5*
- • CHEM 233 - Fundamentals of Organic Chemistry *Units: 3*
- • CHEM 301 - Chemistry Connections *Units: 3 ; G.E./G.R. Area: B6*
- • CHEM 302 - Chemistry Connections Laboratory *Units: 1*
- • CHEM 320 - Bioanalytical and Forensic Instrumentation *Units: 3*
- • CHEM 331 - Organic Chemistry I *Units: 5*
- • CHEM 332 - Organic Chemistry II *Units: 5*
- • CHEM 340 - Survey of Biochemistry *Units: 3*
- • CHEM 350 - Biophysical Chemistry *Units: 3*
- • CHEM 351 - Physical Chemistry I *Units: 3*
- • CHEM 352 - Physical Chemistry II *Units: 3*
- • CHEM 355 - Physical Chemistry Laboratory *Units: 2*
- • CHEM 410 - Advanced Inorganic Chemistry *Units: 4*
- • CHEM 415 - Inorganic Chemistry Laboratory *Units: 2*
- • CHEM 420 - Instrumental Analysis *Units: 3*
- • CHEM 425 - Environmental Chemistry *Units: 4*
- • CHEM 430 - Advanced Organic Chemistry *Units: 3*
- • CHEM 441 - Biochemistry I *Units: 4*
- • CHEM 442 - Biochemistry II *Units: 4*
- • CHEM 443 - Biochemistry Laboratory I *Units: 3*
- • CHEM 444 - Biochemistry Laboratory II *Units: 3*
- • CHEM 445 - Protein Structure *Units: 3*
- • CHEM 446 - Nucleic Acid Chemistry *Units: 3*
- • CHEM 447 - Major Organ Biochemistry *Units: 3*
- • CHEM 450 - Classical and Statistical Thermodynamics *Units: 3*
- • CHEM 470 - Chemical Literature *Units: 1*
- • CHEM 480 - Undergraduate Research *Units: 1-2*
- • CHEM 481 - Senior Thesis *Units: 1-2*
- • CHEM 490 - Independent Study *Units: 1-4*

Chemistry: Courses for Non-Science Majors

- • CHEM 106 - Chemistry and Society *Units: 3 ; G.E./G.R. Area: B1; Sustainability*
- • CHEM 304 - Chemistry of Wine Making *Units: 3 ; G.E./G.R. Area: B6*
- • CHEM 306 - Green Chemistry and Sustainability *Units: 3 ; G.E./G.R. Area: B6*

Chemistry: Graduate

- • CHEM 621 - Molecular Spectroscopy *Units: 3*
- • CHEM 631 - Graduate Organic Chemistry *Units: 3*
- • CHEM 641 - Graduate Biochemistry *Units: 3*
- • CHEM 642 - Protein Chemistry Techniques *Units: 3*
- • CHEM 651 - Graduate Physical Chemistry *Units: 3*
- • CHEM 652 - Computational Chemistry *Units: 3*
- • CHEM 680 - Seminar *Units: 1*
- • CHEM 681 - Research *Units: 1-2*
- • CHEM 690 - Independent Study *Units: 1-3*
- • CHEM 691 - University Thesis *Units: 2*
- • CHEM 692 - Comprehensive Exam *Units: 2*
- • CHEM 693 - Review Paper *Units: 2*
- • CHEM 697 - Issues in Chemistry *Units: 3*

Chemistry, B.S.

Chemistry, B.S. Program (120 units)

Program Description

The Department of Chemistry and Biochemistry provides a strong education in chemistry and biochemistry that prepares its students to function and thrive in our society. The department attempts to increase the problem solving and critical thinking skills of all students. Non-science students learn about the scientific and chemical aspects of everyday life that allow them to understand issues related to the environment, energy production, disease prevention, and nutrition. Students of the sciences learn the fundamentals of chemistry that control the interactions of elements and molecules. Chemistry majors receive extensive instruction in predicting chemical reactivity. Building on an understanding of mathematics and physics, chemistry majors receive a background in the major disciplines of chemistry including inorganic, analytical, organic, physical, and biochemistry. Students learn the protocols and techniques for working safely with chemicals. The department recognizes the importance of the pursuit of new knowledge in the development of skilled scientists and productive members of society, and encourages its students to participate in research projects and cooperative educational opportunities.

The undergraduate programs offered by the department include: Chemistry, B.S.; Biochemistry, B.S.; Chemistry, Bioanalytical and Forensics Concentration, B.S.; Chemistry, B.A.; Chemistry, Chemistry Education Concentration, B.A.; Biochemistry, B.A.; Biochemistry, Chemistry Education Concentration, B.A.; and a Chemistry Minor. Descriptions of these programs and their requirements can be found under each degree listing. The department also offers a Chemistry M.S. degree and a Chemistry, M.S. Concentration in Biochemistry. See under program listings for descriptions.

The Chemistry, B.S. degree is approved by the American Chemical Society (ACS). A certified degree is a valuable credential that serves as national-level recognition for completing a rigorous academic chemistry curriculum in an ACS-approved department. The extra rigor of an ACS certified degree is valued by both potential employers and graduate schools.

Mission Statement

It is imperative that CSUEB chemistry students possess sufficient theoretical and practical training in chemistry and biochemistry so that they will be able to assume the significant technical responsibilities required by the chemical and biotechnology industries that will employ them. It is important that our students are not only trained in chemistry (and biochemistry), but that they will become respected scientists and research technicians. In addition, it is important that students planning for entrance into Ph.D. programs or pre-professional programs are adequately prepared.

Program Learning Outcomes

Students graduating with a Bachelor's degree in Chemistry or Biochemistry from Cal State East Bay will be able to:

- Demonstrate knowledge in the various areas of chemistry, including inorganic chemistry, analytical chemistry, organic chemistry, physical chemistry, and biochemistry.
- Use quantitative reasoning to analyze and solve chemical problems and evaluate chemical data.
- Work effectively and safely in a laboratory environment to perform experimental procedures and operate modern chemical/biochemical instruments
- Design, carry out, record and analyze the results of chemical experiments.
- Communicate chemical or biochemical issues clearly.

Career Opportunities

Analytical Chemist • Biotechnologist • Chemist • Dietitian • Environmental Chemist • Food and Drug Inspector • Forensic Chemist • Geochemist • Materials Scientist • Organic Chemist • Perfumer • Petrologist • Pharmacist • Pharmaceutical Chemist • Physical Chemist • Pollution Control • Quality Control Technician • Teacher • Water Purification Chemist

Features

Laboratory equipment and instruments in the Department of Chemistry and Biochemistry include a 500 MHz nuclear magnetic resonance (NMR) spectrometer, a capillary gas chromatograph with mass-spectral detection (GC/MS), Fourier-transform infrared spectrophotometers (FTIR), an inductively coupled plasma-optical emission spectrometer (ICP-OES), high performance liquid chromatographs (HPLC), a fast protein liquid chromatograph (FPLC), a fluorescence spectrometer, a diode-array ultraviolet-visible spectrophotometer, a plate reader, a molecular imager and microwave synthesizers. A molecular modeling facility is also available for instruction and research.

The Alchemist Club, a student affiliate of the American Chemical Society, is available to students majoring in Chemistry. The club members are active in many aspects of the department, participate in fund-raising for special projects, and take interesting field trips to local industries.

Preparation and Prerequisites

Prerequisite courses for all chemistry courses must be passed with a grade of "C-" or better. Requests for Grade Forgiveness will be allowed only on a space-available basis.

Other Degree Requirements

In addition to major requirements, every student must also complete the University requirements for graduation which are described in the Baccalaureate Degree Requirements chapter in this catalog. These include the General Education requirements; the University Writing Skills Requirement; and the residence, unit, and grade point average requirements.

Degree Requirements Unit-Outline

- The baccalaureate degree requires a total of 120 units:
 - The major requirements consists of 72-74 units;
 - General Education & Graduation Requirements consists of 57 units;
 - Free Electives may consist of 0-8 units (*actual number of free elective units may depend on GE/GR units*).

Note: It may be possible to double-count units within the graduation requirements or that a course may satisfy both a graduation requirement and a major requirement. Students should contact their program and AACE advisors for information.

Chemistry (B.S.) Major Requirements (72-74 units) ACS Certified Program

Lower Division Core

The following 32 units of lower-division coursework are required for all Chemistry B.S. students:

- CHEM 111 - General Chemistry I *Units: 5 ; G.E./G.R. Area: B1, B3*
- CHEM 112 - General Chemistry II *Units: 5*
- CHEM 220 - Quantitative Analysis *Units: 4*
- PHYS 135 - Physics for Scientists and Engineers I *Units: 4 ; G.E./G.R. Area: B1, B3*
- PHYS 136 - Physics for Scientists and Engineers II *Units: 4*
- MATH 130 - Calculus I *Units: 4 ; G.E./G.R. Area: B4*
- MATH 131 - Calculus II *Units: 3*
- MATH 230 - Calculus III *Units: 3*

Upper Division Core

The following 22 units of upper-division coursework are required or all Chemistry B.S. students:

- CHEM 331 - Organic Chemistry I *Units: 5*
- CHEM 332 - Organic Chemistry II *Units: 5*
- CHEM 340 - Survey of Biochemistry *Units: 3*
- CHEM 351 - Physical Chemistry I *Units: 3*
- CHEM 352 - Physical Chemistry II *Units: 3*
- CHEM 420 - Instrumental Analysis *Units: 3*

Additional Required Coursework

An additional 18 units minimum are required to complete the B.S. Chemistry major for students NOT choosing the Bioanalytical and Forensics concentration:

- CHEM 355 - Physical Chemistry Laboratory *Units: 2*
- CHEM 410 - Advanced Inorganic Chemistry *Units: 4*
- CHEM 415 - Inorganic Chemistry Laboratory *Units: 2*
- MATH 210 - Linear Algebra with Differential Equations *Units: 3*
- PHYS 137 - Physics for Scientists and Engineers III *Units: 4*

Plus choose one (1) additional course for a minimum of 3 units from the following:

- CHEM 425 - Environmental Chemistry *Units: 4*
- CHEM 430 - Advanced Organic Chemistry *Units: 3*
- CHEM 450 - Classical and Statistical Thermodynamics *Units: 3*

Other Undergraduate Degree Requirements

In addition to major requirements, every student must also complete the University's baccalaureate requirements for graduation, which are described in the Requirements, Exams & Testing chapter of this catalog.

Department Courses Listed by Course Type

Chemistry and Biochemistry Courses

Department of Chemistry and Biochemistry

Go to information for this department.

Courses

Chemistry

- CHEM 100 - Introduction to College Chemistry *Units: 3 ; G.E./G.R. Area: B1, B3*
- CHEM 110 - General Chemistry for Engineering *Units: 3 ; G.E./G.R. Area: B1, B3*
- CHEM 111 - General Chemistry I *Units: 5 ; G.E./G.R. Area: B1, B3*
- CHEM 112 - General Chemistry II *Units: 5*
- CHEM 161 - Basic Chemistry for the Health Sciences *Units: 4 ; G.E./G.R. Area: B1, B3*
- CHEM 162 - Basic Biochemistry for the Health Sciences *Units: 3*
- CHEM 165 - Basic Chemistry for Healthier Living *Units: 4 ; G.E./G.R. Area: B1, B3*
- CHEM 220 - Quantitative Analysis *Units: 4*
- CHEM 230 - Survey of Organic Chemistry *Units: 5*
- CHEM 233 - Fundamentals of Organic Chemistry *Units: 3*
- CHEM 301 - Chemistry Connections *Units: 3 ; G.E./G.R. Area: B6*
- CHEM 302 - Chemistry Connections Laboratory *Units: 1*
- CHEM 320 - Bioanalytical and Forensic Instrumentation *Units: 3*
- CHEM 331 - Organic Chemistry I *Units: 5*
- CHEM 332 - Organic Chemistry II *Units: 5*
- CHEM 340 - Survey of Biochemistry *Units: 3*
- CHEM 350 - Biophysical Chemistry *Units: 3*
- CHEM 351 - Physical Chemistry I *Units: 3*
- CHEM 352 - Physical Chemistry II *Units: 3*
- CHEM 355 - Physical Chemistry Laboratory *Units: 2*
- CHEM 410 - Advanced Inorganic Chemistry *Units: 4*
- CHEM 415 - Inorganic Chemistry Laboratory *Units: 2*
- CHEM 420 - Instrumental Analysis *Units: 3*
- CHEM 425 - Environmental Chemistry *Units: 4*
- CHEM 430 - Advanced Organic Chemistry *Units: 3*
- CHEM 441 - Biochemistry I *Units: 4*
- CHEM 442 - Biochemistry II *Units: 4*
- CHEM 443 - Biochemistry Laboratory I *Units: 3*
- CHEM 444 - Biochemistry Laboratory II *Units: 3*
- CHEM 445 - Protein Structure *Units: 3*
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- CHEM 480 - Undergraduate Research *Units: 1-2*
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Chemistry: Courses for Non-Science Majors

- CHEM 106 - Chemistry and Society *Units: 3 ; G.E./G.R. Area: B1; Sustainability*

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Chemistry: Graduate

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- CHEM 690 - Independent Study *Units: 1-3*
- CHEM 691 - University Thesis *Units: 2*
- CHEM 692 - Comprehensive Exam *Units: 2*
- CHEM 693 - Review Paper *Units: 2*
- CHEM 697 - Issues in Chemistry *Units: 3*

Chemistry, B.S.: Bioanalytical and Forensics Concentration

Chemistry, B.S. Program (120 units)

Program Description

The Department of Chemistry and Biochemistry provides a strong education in chemistry and biochemistry that prepares its students to function and thrive in our society. The department attempts to increase the problem solving and critical thinking skills of all students. Non-science students learn about the scientific and chemical aspects of everyday life that allow them to understand issues related to the environment, energy production, disease prevention, and nutrition. Students of the sciences learn the fundamentals of chemistry that control the interactions of elements and molecules. Chemistry majors receive extensive instruction in predicting chemical reactivity. Building on an understanding of mathematics and physics, chemistry majors receive a background in the major disciplines of chemistry including inorganic, analytical, organic, physical, and biochemistry. Students learn the protocols and techniques for working safely with chemicals. The department recognizes the importance of the pursuit of new knowledge in the development of skilled scientists and productive members of society, and encourages its students to participate in research projects and cooperative educational opportunities.

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Program Learning Outcomes

Students graduating with a Bachelor's degree in Chemistry or Biochemistry from Cal State East Bay will be able to:

- Demonstrate knowledge in the various areas of chemistry, including inorganic chemistry, analytical chemistry, organic chemistry, physical chemistry, and biochemistry.
- Use quantitative reasoning to analyze and solve chemical problems and evaluate chemical data.
- Work effectively and safely in a laboratory environment to perform experimental procedures and operate modern chemical/biochemical instruments
- Design, carry out, record and analyze the results of chemical experiments.
- Communicate chemical or biochemical issues clearly.

Career Opportunities

Analytical Chemist • Biotechnologist • Chemist • Dietitian • Environmental Chemist • Food and Drug Inspector • Forensic Chemist • Geochemist • Materials Scientist • Organic Chemist • Perfumer • Petrologist • Pharmacist • Pharmaceutical Chemist • Physical Chemist • Pollution Control • Quality Control Technician • Teacher • Water Purification Chemist

Features

Laboratory equipment and instruments in the Department of Chemistry and Biochemistry include a 500 MHz nuclear magnetic resonance (NMR) spectrometer, a capillary gas chromatograph with mass-spectral detection (GC/MS), Fourier-transform infrared spectrophotometers (FTIR), an inductively coupled plasma-optical emission spectrometer (ICP-OES), high performance liquid chromatographs (HPLC), a fast protein liquid chromatograph (FPLC), a fluorescence spectrometer, a diode-array ultraviolet-visible spectrophotometer, a plate reader, a molecular imager and microwave synthesizers. A molecular modeling facility is also available for instruction and research.

The Alchemist Club, a student affiliate of the American Chemical Society, is available to students majoring in Chemistry. The club members are active in many aspects of the department, participate in fund-raising for special projects, and take interesting field trips to local industries.

Preparation and Prerequisites

Prerequisite courses for all chemistry courses must be passed with a grade of "C-" or better. Requests for Grade Forgiveness will be allowed only on a space-available basis.

Other Degree Requirements

In addition to major requirements, every student must also complete the University requirements for graduation which are described in the Baccalaureate Degree Requirements chapter in this catalog. These

include the General Education requirements; the University Writing Skills Requirement; and the residence, unit, and grade point average requirements.

Degree Requirements Unit-Outline

- The baccalaureate degree requires a total of 120 units:
 - The major requirements consists of 72-74 units;
 - General Education & Graduation Requirements consists of 57 units;
 - Free Electives may consist of 0-8 units (*actual number of free elective units may depend on GE/GR units*).

Note: It may be possible to double-count units within the graduation requirements or that a course may satisfy both a graduation requirement and a major requirement. Students should contact their program and AAC&E advisors for information.

Chemistry (B.S.) Major Requirements (72-74 units) ACS Certified Program

Lower Division Core

The following 32 units of lower-division coursework are required for all Chemistry B.S. students:

- CHEM 111 - General Chemistry I *Units: 5 ; G.E./G.R. Area: B1, B3*
- CHEM 112 - General Chemistry II *Units: 5*
- CHEM 220 - Quantitative Analysis *Units: 4*
- PHYS 135 - Physics for Scientists and Engineers I *Units: 4 ; G.E./G.R. Area: B1, B3*
- PHYS 136 - Physics for Scientists and Engineers II *Units: 4*
- MATH 130 - Calculus I *Units: 4 ; G.E./G.R. Area: B4*
- MATH 131 - Calculus II *Units: 3*
- MATH 230 - Calculus III *Units: 3*

Upper Division Core

The following 22 units of upper-division coursework are required for all Chemistry B.S. students:

- CHEM 331 - Organic Chemistry I *Units: 5*
- CHEM 332 - Organic Chemistry II *Units: 5*
- CHEM 340 - Survey of Biochemistry *Units: 3*
- CHEM 351 - Physical Chemistry I *Units: 3*
- CHEM 352 - Physical Chemistry II *Units: 3*
- CHEM 420 - Instrumental Analysis *Units: 3*

Bioanalytical and Forensics Concentration

The Bachelor of Science degree, major in Chemistry with a Bioanalytical and Forensics concentration, is designed to prepare students for careers as bioanalytical or forensic chemists. In addition to the core coursework, 20 units for the concentration are required:

- BIOL 140A - Principles of Cell and Molecular Biology *Units: 5 ; G.E./G.R. Area: B2, B3*
- BIOL 140B - Principles of Organismal Biology *Units: 5*
- BIOL 310 - Genetic Analysis I *Units: 4*
- BIOL 415 - PCR, Sequencing and Fragment Analysis *Units: 3*
- CHEM 320 - Bioanalytical and Forensic Instrumentation *Units: 3*

Other Undergraduate Degree Requirements

In addition to major requirements, every student must also complete the University's baccalaureate requirements for graduation, which are described in the Requirements, Exams & Testing chapter of this catalog.

Department Courses Listed by Course Type

Chemistry and Biochemistry Courses

Department of Chemistry and Biochemistry

Go to information for this department.

Courses

Chemistry

- CHEM 100 - Introduction to College Chemistry *Units: 3 ; G.E./G.R. Area: B1, B3*
- CHEM 110 - General Chemistry for Engineering *Units: 3 ; G.E./G.R. Area: B1, B3*
- CHEM 111 - General Chemistry I *Units: 5 ; G.E./G.R. Area: B1, B3*
- CHEM 112 - General Chemistry II *Units: 5*
- CHEM 161 - Basic Chemistry for the Health Sciences *Units: 4 ; G.E./G.R. Area: B1, B3*
- CHEM 162 - Basic Biochemistry for the Health Sciences *Units: 3*
- CHEM 165 - Basic Chemistry for Healthier Living *Units: 4 ; G.E./G.R. Area: B1, B3*
- CHEM 220 - Quantitative Analysis *Units: 4*
- CHEM 230 - Survey of Organic Chemistry *Units: 5*
- CHEM 233 - Fundamentals of Organic Chemistry *Units: 3*
- CHEM 301 - Chemistry Connections *Units: 3 ; G.E./G.R. Area: B6*
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- CHEM 415 - Inorganic Chemistry Laboratory *Units: 2*
- CHEM 420 - Instrumental Analysis *Units: 3*

- CHEM 425 - Environmental Chemistry *Units: 4*
- CHEM 430 - Advanced Organic Chemistry *Units: 3*
- CHEM 441 - Biochemistry I *Units: 4*
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- CHEM 445 - Protein Structure *Units: 3*
- CHEM 446 - Nucleic Acid Chemistry *Units: 3*
- CHEM 447 - Major Organ Biochemistry *Units: 3*
- CHEM 450 - Classical and Statistical Thermodynamics *Units: 3*
- CHEM 470 - Chemical Literature *Units: 1*
- CHEM 480 - Undergraduate Research *Units: 1-2*
- CHEM 481 - Senior Thesis *Units: 1-2*
- CHEM 490 - Independent Study *Units: 1-4*

Chemistry: Courses for Non-Science Majors

- CHEM 106 - Chemistry and Society *Units: 3 ; G.E./G.R. Area: B1; Sustainability*
- CHEM 304 - Chemistry of Wine Making *Units: 3 ; G.E./G.R. Area: B6*
- CHEM 306 - Green Chemistry and Sustainability *Units: 3 ; G.E./G.R. Area: B6*

Chemistry: Graduate

- CHEM 621 - Molecular Spectroscopy *Units: 3*
- CHEM 631 - Graduate Organic Chemistry *Units: 3*
- CHEM 641 - Graduate Biochemistry *Units: 3*
- CHEM 642 - Protein Chemistry Techniques *Units: 3*
- CHEM 651 - Graduate Physical Chemistry *Units: 3*
- CHEM 652 - Computational Chemistry *Units: 3*
- CHEM 680 - Seminar *Units: 1*
- CHEM 681 - Research *Units: 1-2*
- CHEM 690 - Independent Study *Units: 1-3*
- CHEM 691 - University Thesis *Units: 2*
- CHEM 692 - Comprehensive Exam *Units: 2*
- CHEM 693 - Review Paper *Units: 2*
- CHEM 697 - Issues in Chemistry *Units: 3*

Master

Chemistry, M.S.

Chemistry, M.S. Program

Program Description

The Master of Science degree provides students with advanced training in chemistry and the analytical skills needed to process and critique complex chemical information. The program requires a set of core courses encompassing the different disciplines of chemistry. Students may complete the remaining unit requirements with coursework in chemistry or may choose a biochemistry concentration, with the additional coursework in that area. The degree program mainly serves students in four categories: those seeking opportunities in the chemical industry requiring training beyond the baccalaureate level,

employed chemists who wish to enhance their career potential, future teachers of high school or community college chemistry, and individuals contemplating more advanced graduate study.

Because of the rapid progress in the fields of chemistry and biochemistry, the department strives to offer a range of courses that cover not only established principles but also recent advances. Through laboratory-based coursework and research opportunities, students are prepared for new developments in experimental methods and instrumentation. They acquire experience reading and analyzing the chemical or biochemical literature in several courses, as well as through a research-based laboratory or computational project (Plan A) or by developing a written literature review (Plan B).

Program Learning Outcomes

Students graduating with a Master of Science in Chemistry will be able to:

- demonstrate mastery of specialized knowledge in the chemical sciences beyond the undergraduate level
- work effectively and safely in a laboratory environment using chemistry laboratory techniques and chemical/biochemical instrumentation.
- use theoretical and experimental chemistry methods to test hypotheses or analyze and design solutions to problems
- research, understand, organize, and critically assess information from the chemical literature
- present complex chemical information via oral and written reports

Programs & Concentrations

Within the Chemistry degree, candidates will choose one of four courses of study:

- M.S. Chemistry, Plan A (Thesis)
- M.S. Chemistry, Plan B (Comprehensive Exam)
- M.S. Chemistry, Concentration in Biochemistry, Plan A (Thesis)
- M.S. Chemistry, Concentration in Biochemistry, Plan B (Comprehensive Exam)

Both Plan A programs require a University Thesis, whereas both Plan B programs require completion of a literature review paper and passing terminal written and oral exams.

Facilities

The laboratories are modern and well-equipped. Major instrumentation includes a 500 MHz nuclear magnetic resonance spectrometer (NMR), a capillary gas chromatograph with mass-spectral detection (GC/MS), Fourier-transform infrared spectrophotometers (FTIR), an inductively coupled plasma-optical emission spectrometer (ICP-OES), high performance liquid chromatographs (HPLC), a fast protein liquid chromatograph (FPLC), a fluorescence spectrometer, thermocyclers, a plate reader with UV and fluorescence detection, a molecular imager and a diode-array ultraviolet-visible spectrophotometer. A molecular modeling facility is available for instruction and research.

Additional Information

The Masters' degree program is under the nominal direction of the graduate coordinator, with the participation of the Graduate Studies Committee. All inquiries should be directed to the graduate coordinator or to the department chair.

Admission Requirements

The basic requirements for entry into the program are possession of a baccalaureate degree in Chemistry or Biochemistry, including a year of physical chemistry, and a GPA of at least 2.6 in upper division chemistry and biochemistry courses. Applicants not meeting the GPA requirement may still be accepted subject to receipt of acceptable letters of recommendation. The G.R.E. subject test in chemistry or biochemistry is optional. Applicants not having an undergraduate major in chemistry or biochemistry may be accepted into the program depending on the amount of undergraduate coursework required to remove deficiencies.

Qualified applicants are accepted in "Conditionally Classified Graduate" status. To become fully "Classified Graduate," students must remove any deficiencies in the undergraduate coursework, complete eight units applicable to the degree, and satisfy the University Writing Skills Requirement.

Plan A, Thesis

A university thesis is required both for the M.S. Chemistry, Plan A and the M.S. Chemistry, Concentration in Biochemistry, Plan A degrees. A thesis topic is decided by mutual agreement between a graduate student and an appropriate faculty member.

Off-Campus Research

Candidates whose employers permit the use of appropriate facilities and approve the release of the applicable findings may arrange to conduct research on their employers' premises in support of their M.S. theses, subject to prior approval by the department.

Plan B, Comprehensive Examination

Plan B entails completion of a significant literature search and submission of a written report on the selected topic. Candidates must pass an oral examination covering the report and also pass a written comprehensive exam consisting of topics from the coursework applied to the degree.

Advancement to Candidacy

Advancement to Candidacy requires that the student complete eight units in 600-level courses applicable towards the degree with an average grade of 3.0 or better and select a research advisor for the thesis or a supervisor for the Plan B literature review paper. Additionally, students must satisfy the University Writing Skills Requirement and qualify for "Classified Graduate" status within two years of admission.

Curricular Requirements

The M.S. programs in Chemistry provide for the degree to be obtained under Chemistry or Chemistry, Concentration in Biochemistry. Under either program, Plan A (University Thesis) or Plan B (Comprehensive Exam) must be selected.

Chemistry Degree Requirements (30 units)

In order to be eligible for the degree, the student must satisfy the following departmental requirements:

Prerequisite Requirement

One year of undergraduate biochemistry is required for students choosing the Biochemistry concentration.

Core Requirements

The following 15-19 units of core coursework are required for all Chemistry, M.S. students:

- CHEM 420 - Instrumental Analysis *Units: 3*
- CHEM 470 - Chemical Literature *Units: 1*
- CHEM 631 - Graduate Organic Chemistry *Units: 3*
- CHEM 641 - Graduate Biochemistry *Units: 3*
- CHEM 651 - Graduate Physical Chemistry *Units: 3*
- CHEM 680 - Seminar *Units: 1 (course must be repeated for a total of two [2] units)*

Students in the General Chemistry program selecting the **Comprehensive Examination/Review Paper** as their capstone experience must also complete these additional 4 units:

- CHEM 425 - Environmental Chemistry *Units: 4*
This course is NOT required for the Biochemistry concentration students.

Capstone Requirements

University Thesis Coursework (Plan A)

Students selecting University Thesis as their capstone experience must submit to the department an acceptable master's degree thesis and complete the following six (6) units:

- CHEM 681 - Research *Units: 1-2 (must be repeated twice for four [4] units)*
- CHEM 691 - University Thesis *Units: 2*

Comprehensive Exam Coursework (Plan B)

Students selecting Comprehensive Examination/Review Paper as their capstone experience must complete the following four (4) units:

- CHEM 692 - Comprehensive Exam *Units: 2*
- CHEM 693 - Review Paper *Units: 2*

Elective Courses

Elective coursework is dependent upon the capstone experience chosen to complete the degree. Take the following elective units as outlined below:

Students selecting the THESIS as their capstone experience must complete a minimum of 9 units from the following electives with a minimum of three units from 600 level courses. No more than three units of CHEM 690 may be included.

Students selecting the COMP EXAM as their capstone experience must complete a minimum of 7 units from the following electives with a minimum of three units from 600 level courses. No more than two units of CHEM 681 may be included.

- CHEM 410 - Advanced Inorganic Chemistry *Units: 4*

- CHEM 425 - Environmental Chemistry *Units: 4*
- CHEM 430 - Advanced Organic Chemistry *Units: 3*
- CHEM 450 - Classical and Statistical Thermodynamics *Units: 3*
- CHEM 621 - Molecular Spectroscopy *Units: 3*
- CHEM 652 - Computational Chemistry *Units: 3*
- CHEM 681 - Research *Units: 1-2*
- CHEM 690 - Independent Study *Units: 1-3*
- CHEM 697 - Issues in Chemistry *Units: 3*

Other Graduate & Post-Baccalaureate Degree Requirements

In addition to departmental requirements, every student must also satisfy the University requirements for graduation as described throughout this catalog. These include the 70% unit residence requirement; the five-year rule on currency of subject matter; the minimum number of units in 600-level courses; the "C" minimum grade for each graduate course; the 3.00 cumulative grade point average; and the University Writing Skills Requirement.

Note: For information on meeting the University Writing Skills Requirement, see the Testing Office website at www.csueastbay.edu/testing or call (510) 885-3661.

Department Courses Listed by Course Type

Chemistry and Biochemistry Courses

Department of Chemistry and Biochemistry

Go to information for this department.

Courses

Chemistry

- CHEM 100 - Introduction to College Chemistry *Units: 3 ; G.E./G.R. Area: B1, B3*
- CHEM 110 - General Chemistry for Engineering *Units: 3 ; G.E./G.R. Area: B1, B3*
- CHEM 111 - General Chemistry I *Units: 5 ; G.E./G.R. Area: B1, B3*
- CHEM 112 - General Chemistry II *Units: 5*
- CHEM 161 - Basic Chemistry for the Health Sciences *Units: 4 ; G.E./G.R. Area: B1, B3*
- CHEM 162 - Basic Biochemistry for the Health Sciences *Units: 3*
- CHEM 165 - Basic Chemistry for Healthier Living *Units: 4 ; G.E./G.R. Area: B1, B3*
- CHEM 220 - Quantitative Analysis *Units: 4*
- CHEM 230 - Survey of Organic Chemistry *Units: 5*
- CHEM 233 - Fundamentals of Organic Chemistry *Units: 3*
- CHEM 301 - Chemistry Connections *Units: 3 ; G.E./G.R. Area: B6*
- CHEM 302 - Chemistry Connections Laboratory *Units: 1*
- CHEM 320 - Bioanalytical and Forensic Instrumentation *Units: 3*
- CHEM 331 - Organic Chemistry I *Units: 5*
- CHEM 332 - Organic Chemistry II *Units: 5*
- CHEM 340 - Survey of Biochemistry *Units: 3*

- CHEM 350 - Biophysical Chemistry *Units: 3*
- CHEM 351 - Physical Chemistry I *Units: 3*
- CHEM 352 - Physical Chemistry II *Units: 3*
- CHEM 355 - Physical Chemistry Laboratory *Units: 2*
- CHEM 410 - Advanced Inorganic Chemistry *Units: 4*
- CHEM 415 - Inorganic Chemistry Laboratory *Units: 2*
- CHEM 420 - Instrumental Analysis *Units: 3*
- CHEM 425 - Environmental Chemistry *Units: 4*
- CHEM 430 - Advanced Organic Chemistry *Units: 3*
- CHEM 441 - Biochemistry I *Units: 4*
- CHEM 442 - Biochemistry II *Units: 4*
- CHEM 443 - Biochemistry Laboratory I *Units: 3*
- CHEM 444 - Biochemistry Laboratory II *Units: 3*
- CHEM 445 - Protein Structure *Units: 3*
- CHEM 446 - Nucleic Acid Chemistry *Units: 3*
- CHEM 447 - Major Organ Biochemistry *Units: 3*
- CHEM 450 - Classical and Statistical Thermodynamics *Units: 3*
- CHEM 470 - Chemical Literature *Units: 1*
- CHEM 480 - Undergraduate Research *Units: 1-2*
- CHEM 481 - Senior Thesis *Units: 1-2*
- CHEM 490 - Independent Study *Units: 1-4*

Chemistry: Courses for Non-Science Majors

- CHEM 106 - Chemistry and Society *Units: 3 ; G.E./G.R. Area: B1; Sustainability*
- CHEM 304 - Chemistry of Wine Making *Units: 3 ; G.E./G.R. Area: B6*
- CHEM 306 - Green Chemistry and Sustainability *Units: 3 ; G.E./G.R. Area: B6*

Chemistry: Graduate

- CHEM 621 - Molecular Spectroscopy *Units: 3*
- CHEM 631 - Graduate Organic Chemistry *Units: 3*
- CHEM 641 - Graduate Biochemistry *Units: 3*
- CHEM 642 - Protein Chemistry Techniques *Units: 3*
- CHEM 651 - Graduate Physical Chemistry *Units: 3*
- CHEM 652 - Computational Chemistry *Units: 3*
- CHEM 680 - Seminar *Units: 1*
- CHEM 681 - Research *Units: 1-2*
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- CHEM 691 - University Thesis *Units: 2*
- CHEM 692 - Comprehensive Exam *Units: 2*
- CHEM 693 - Review Paper *Units: 2*
- CHEM 697 - Issues in Chemistry *Units: 3*

Chemistry, M.S.: Biochemistry Concentration

Chemistry, M.S. Program

Program Description

The Master of Science degree provides students with advanced training in chemistry and the analytical skills needed to process and critique complex chemical information. The program requires a set of core

courses encompassing the different disciplines of chemistry. Students may complete the remaining unit requirements with coursework in chemistry or may choose a biochemistry concentration, with the additional coursework in that area. The degree program mainly serves students in four categories: those seeking opportunities in the chemical industry requiring training beyond the baccalaureate level, employed chemists who wish to enhance their career potential, future teachers of high school or community college chemistry, and individuals contemplating more advanced graduate study.

Because of the rapid progress in the fields of chemistry and biochemistry, the department strives to offer a range of courses that cover not only established principles but also recent advances. Through laboratory-based coursework and research opportunities, students are prepared for new developments in experimental methods and instrumentation. They acquire experience reading and analyzing the chemical or biochemical literature in several courses, as well as through a research-based laboratory or computational project (Plan A) or by developing a written literature review (Plan B).

Program Learning Outcomes

Students graduating with a Master of Science in Chemistry will be able to:

- demonstrate mastery of specialized knowledge in the chemical sciences beyond the undergraduate level
- work effectively and safely in a laboratory environment using chemistry laboratory techniques and chemical/biochemical instrumentation.
- use theoretical and experimental chemistry methods to test hypotheses or analyze and design solutions to problems
- research, understand, organize, and critically assess information from the chemical literature
- present complex chemical information via oral and written reports

Programs & Concentrations

Within the Chemistry degree, candidates will choose one of four courses of study:

- M.S. Chemistry, Plan A (Thesis)
- M.S. Chemistry, Plan B (Comprehensive Exam)
- M.S. Chemistry, Concentration in Biochemistry, Plan A (Thesis)
- M.S. Chemistry, Concentration in Biochemistry, Plan B (Comprehensive Exam)

Both Plan A programs require a University Thesis, whereas both Plan B programs require completion of a literature review paper and passing terminal written and oral exams.

Facilities

The laboratories are modern and well-equipped. Major instrumentation includes a 500 MHz nuclear magnetic resonance spectrometer (NMR), a capillary gas chromatograph with mass-spectral detection (GC/MS), Fourier-transform infrared spectrophotometers (FTIR), an inductively coupled plasma-optical emission spectrometer (ICP-OES), high performance liquid chromatographs (HPLC), a fast protein liquid chromatograph (FPLC), a fluorescence spectrometer, thermocyclers, a plate reader with UV and fluorescence detection, a molecular imager and a diode-array ultraviolet-visible spectrophotometer. A molecular modeling facility is available for instruction and research.

Additional Information

The Masters' degree program is under the nominal direction of the graduate coordinator, with the participation of the Graduate Studies Committee. All inquiries should be directed to the graduate coordinator or to the department chair.

Admission Requirements

The basic requirements for entry into the program are possession of a baccalaureate degree in Chemistry or Biochemistry, including a year of physical chemistry, and a GPA of at least 2.6 in upper division chemistry and biochemistry courses. Applicants not meeting the GPA requirement may still be accepted subject to receipt of acceptable letters of recommendation. The G.R.E. subject test in chemistry or biochemistry is optional. Applicants not having an undergraduate major in chemistry or biochemistry may be accepted into the program depending on the amount of undergraduate coursework required to remove deficiencies.

Qualified applicants are accepted in "Conditionally Classified Graduate" status. To become fully "Classified Graduate," students must remove any deficiencies in the undergraduate coursework, complete eight units applicable to the degree, and satisfy the University Writing Skills Requirement.

Plan A, Thesis

A university thesis is required both for the M.S. Chemistry, Plan A and the M.S. Chemistry, Concentration in Biochemistry, Plan A degrees. A thesis topic is decided by mutual agreement between a graduate student and an appropriate faculty member.

Off-Campus Research

Candidates whose employers permit the use of appropriate facilities and approve the release of the applicable findings may arrange to conduct research on their employers' premises in support of their M.S. theses, subject to prior approval by the department.

Plan B, Comprehensive Examination

Plan B entails completion of a significant literature search and submission of a written report on the selected topic. Candidates must pass an oral examination covering the report and also pass a written comprehensive exam consisting of topics from the coursework applied to the degree.

Advancement to Candidacy

Advancement to Candidacy requires that the student complete eight units in 600-level courses applicable towards the degree with an average grade of 3.0 or better and select a research advisor for the thesis or a supervisor for the Plan B literature review paper. Additionally, students must satisfy the University Writing Skills Requirement and qualify for "Classified Graduate" status within two years of admission.

Curricular Requirements

The M.S. programs in Chemistry provide for the degree to be obtained under Chemistry or Chemistry, Concentration in Biochemistry. Under either program, Plan A (University Thesis) or Plan B (Comprehensive Exam) must be selected.

Chemistry Degree Requirements (30 units)

In order to be eligible for the degree, the student must satisfy the following departmental requirements:

Prerequisite Requirement

One year of undergraduate biochemistry is required for students choosing the Biochemistry concentration.

Core Requirements

The following 15-19 units of core coursework are required for all Chemistry, M.S. students:

- CHEM 420 - Instrumental Analysis *Units: 3*
- CHEM 470 - Chemical Literature *Units: 1*
- CHEM 631 - Graduate Organic Chemistry *Units: 3*
- CHEM 641 - Graduate Biochemistry *Units: 3*
- CHEM 651 - Graduate Physical Chemistry *Units: 3*
- CHEM 680 - Seminar *Units: 1 (course must be repeated for a total of two [2] units)*

Students in the General Chemistry program selecting the **Comprehensive Examination/Review Paper** as their capstone experience must also complete these additional 4 units:

- CHEM 425 - Environmental Chemistry *Units: 4*
- This course is NOT required for the Biochemistry concentration students.**

Capstone Requirements

University Thesis Coursework (Plan A)

Students selecting University Thesis as their capstone experience must submit to the department an acceptable master's degree thesis and complete the following six (6) units:

- CHEM 681 - Research *Units: 1-2 (must be repeated twice for four [4] units)*
- CHEM 691 - University Thesis *Units: 2*

Comprehensive Exam Coursework (Plan B)

Students selecting Comprehensive Examination/Review Paper as their capstone experience must complete the following four (4) units:

- CHEM 692 - Comprehensive Exam *Units: 2*
- CHEM 693 - Review Paper *Units: 2*

Biochemistry Concentration

An additional 3 units are required for the concentration:

- CHEM 642 - Protein Chemistry Techniques *Units: 3*

Elective Coursework

Elective coursework is dependent upon the capstone experience chosen to complete the degree. Take the following elective units as outlined below:

Students completing the THESIS are to choose a minimum of 6 units from the list of electives below**: Students completing the COMP EXAM are to choose a minimum of 8 units from the list of electives below*:

- CHEM 445 - Protein Structure *Units: 3*
- CHEM 446 - Nucleic Acid Chemistry *Units: 3*
- CHEM 447 - Major Organ Biochemistry *Units: 3*
- CHEM 621 - Molecular Spectroscopy *Units: 3*
- CHEM 652 - Computational Chemistry *Units: 3*
- CHEM 697 - Issues in Chemistry *Units: 3*

- CHEM 681 - Research *Units: 1-2 *(only optional for Comprehensive Exam capstone students)(no more than two [2] units may be included)*

- CHEM 690 - Independent Study *Units: 1-3 **(only optional for Thesis capstone students)(no more than three [3] units may be included)*

Other Graduate & Post-Baccalaureate Degree Requirements

In addition to departmental requirements, every student must also satisfy the University requirements for graduation as described throughout this catalog. These include the 70% unit residence requirement; the five-year rule on currency of subject matter; the minimum number of units in 600-level courses; the "C" minimum grade for each graduate course; the 3.00 cumulative grade point average; and the University Writing Skills Requirement.

Note: For information on meeting the University Writing Skills Requirement, see the Testing Office website at www.csueastbay.edu/testing or call (510) 885-3661.

Department Courses Listed by Course Type

Chemistry and Biochemistry Courses

Department of Chemistry and Biochemistry

Go to information for this department.

Courses

Chemistry

- CHEM 100 - Introduction to College Chemistry *Units: 3 ; G.E./G.R. Area: B1, B3*
- CHEM 110 - General Chemistry for Engineering *Units: 3 ; G.E./G.R. Area: B1, B3*
- CHEM 111 - General Chemistry I *Units: 5 ; G.E./G.R. Area: B1, B3*
- CHEM 112 - General Chemistry II *Units: 5*
- CHEM 161 - Basic Chemistry for the Health Sciences *Units: 4 ; G.E./G.R. Area: B1, B3*

- • CHEM 162 - Basic Biochemistry for the Health Sciences *Units: 3*
- • CHEM 165 - Basic Chemistry for Healthier Living *Units: 4 ; G.E./G.R. Area: B1, B3*
- • CHEM 220 - Quantitative Analysis *Units: 4*
- • CHEM 230 - Survey of Organic Chemistry *Units: 5*
- • CHEM 233 - Fundamentals of Organic Chemistry *Units: 3*
- • CHEM 301 - Chemistry Connections *Units: 3 ; G.E./G.R. Area: B6*
- • CHEM 302 - Chemistry Connections Laboratory *Units: 1*
- • CHEM 320 - Bioanalytical and Forensic Instrumentation *Units: 3*
- • CHEM 331 - Organic Chemistry I *Units: 5*
- • CHEM 332 - Organic Chemistry II *Units: 5*
- • CHEM 340 - Survey of Biochemistry *Units: 3*
- • CHEM 350 - Biophysical Chemistry *Units: 3*
- • CHEM 351 - Physical Chemistry I *Units: 3*
- • CHEM 352 - Physical Chemistry II *Units: 3*
- • CHEM 355 - Physical Chemistry Laboratory *Units: 2*
- • CHEM 410 - Advanced Inorganic Chemistry *Units: 4*
- • CHEM 415 - Inorganic Chemistry Laboratory *Units: 2*
- • CHEM 420 - Instrumental Analysis *Units: 3*
- • CHEM 425 - Environmental Chemistry *Units: 4*
- • CHEM 430 - Advanced Organic Chemistry *Units: 3*
- • CHEM 441 - Biochemistry I *Units: 4*
- • CHEM 442 - Biochemistry II *Units: 4*
- • CHEM 443 - Biochemistry Laboratory I *Units: 3*
- • CHEM 444 - Biochemistry Laboratory II *Units: 3*
- • CHEM 445 - Protein Structure *Units: 3*
- • CHEM 446 - Nucleic Acid Chemistry *Units: 3*
- • CHEM 447 - Major Organ Biochemistry *Units: 3*
- • CHEM 450 - Classical and Statistical Thermodynamics *Units: 3*
- • CHEM 470 - Chemical Literature *Units: 1*
- • CHEM 480 - Undergraduate Research *Units: 1-2*
- • CHEM 481 - Senior Thesis *Units: 1-2*
- • CHEM 490 - Independent Study *Units: 1-4*

Chemistry: Courses for Non-Science Majors

- • CHEM 106 - Chemistry and Society *Units: 3 ; G.E./G.R. Area: B1; Sustainability*
- • CHEM 304 - Chemistry of Wine Making *Units: 3 ; G.E./G.R. Area: B6*
- • CHEM 306 - Green Chemistry and Sustainability *Units: 3 ; G.E./G.R. Area: B6*

Chemistry: Graduate

- • CHEM 621 - Molecular Spectroscopy *Units: 3*
- • CHEM 631 - Graduate Organic Chemistry *Units: 3*
- • CHEM 641 - Graduate Biochemistry *Units: 3*
- • CHEM 642 - Protein Chemistry Techniques *Units: 3*
- • CHEM 651 - Graduate Physical Chemistry *Units: 3*
- • CHEM 652 - Computational Chemistry *Units: 3*
- • CHEM 680 - Seminar *Units: 1*
- • CHEM 681 - Research *Units: 1-2*
- • CHEM 690 - Independent Study *Units: 1-3*
- • CHEM 691 - University Thesis *Units: 2*
- • CHEM 692 - Comprehensive Exam *Units: 2*
- • CHEM 693 - Review Paper *Units: 2*

- CHEM 697 - Issues in Chemistry *Units: 3*

Minor

Chemistry Minor

Minor Requirements (24 units)

Required Courses

Take the following 24 units:

- CHEM 111 - General Chemistry I *Units: 5 ; G.E./G.R. Area: B1, B3*
- CHEM 112 - General Chemistry II *Units: 5*
- CHEM 220 - Quantitative Analysis *Units: 4*
- CHEM 331 - Organic Chemistry I *Units: 5*
- CHEM 332 - Organic Chemistry II *Units: 5*

Department Courses Listed by Course Type

Chemistry and Biochemistry Courses

Department of Chemistry and Biochemistry

Go to information for this department.

Courses

Chemistry

- CHEM 100 - Introduction to College Chemistry *Units: 3 ; G.E./G.R. Area: B1, B3*
- CHEM 110 - General Chemistry for Engineering *Units: 3 ; G.E./G.R. Area: B1, B3*
- CHEM 111 - General Chemistry I *Units: 5 ; G.E./G.R. Area: B1, B3*
- CHEM 112 - General Chemistry II *Units: 5*
- CHEM 161 - Basic Chemistry for the Health Sciences *Units: 4 ; G.E./G.R. Area: B1, B3*
- CHEM 162 - Basic Biochemistry for the Health Sciences *Units: 3*
- CHEM 165 - Basic Chemistry for Healthier Living *Units: 4 ; G.E./G.R. Area: B1, B3*
- CHEM 220 - Quantitative Analysis *Units: 4*
- CHEM 230 - Survey of Organic Chemistry *Units: 5*
- CHEM 233 - Fundamentals of Organic Chemistry *Units: 3*
- CHEM 301 - Chemistry Connections *Units: 3 ; G.E./G.R. Area: B6*
- CHEM 302 - Chemistry Connections Laboratory *Units: 1*
- CHEM 320 - Bioanalytical and Forensic Instrumentation *Units: 3*
- CHEM 331 - Organic Chemistry I *Units: 5*
- CHEM 332 - Organic Chemistry II *Units: 5*
- CHEM 340 - Survey of Biochemistry *Units: 3*

- • CHEM 350 - Biophysical Chemistry *Units: 3*
- • CHEM 351 - Physical Chemistry I *Units: 3*
- • CHEM 352 - Physical Chemistry II *Units: 3*
- • CHEM 355 - Physical Chemistry Laboratory *Units: 2*
- • CHEM 410 - Advanced Inorganic Chemistry *Units: 4*
- • CHEM 415 - Inorganic Chemistry Laboratory *Units: 2*
- • CHEM 420 - Instrumental Analysis *Units: 3*
- • CHEM 425 - Environmental Chemistry *Units: 4*
- • CHEM 430 - Advanced Organic Chemistry *Units: 3*
- • CHEM 441 - Biochemistry I *Units: 4*
- • CHEM 442 - Biochemistry II *Units: 4*
- • CHEM 443 - Biochemistry Laboratory I *Units: 3*
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- • CHEM 445 - Protein Structure *Units: 3*
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- • CHEM 447 - Major Organ Biochemistry *Units: 3*
- • CHEM 450 - Classical and Statistical Thermodynamics *Units: 3*
- • CHEM 470 - Chemical Literature *Units: 1*
- • CHEM 480 - Undergraduate Research *Units: 1-2*
- • CHEM 481 - Senior Thesis *Units: 1-2*
- • CHEM 490 - Independent Study *Units: 1-4*

Chemistry: Courses for Non-Science Majors

- • CHEM 106 - Chemistry and Society *Units: 3 ; G.E./G.R. Area: B1; Sustainability*
- • CHEM 304 - Chemistry of Wine Making *Units: 3 ; G.E./G.R. Area: B6*
- • CHEM 306 - Green Chemistry and Sustainability *Units: 3 ; G.E./G.R. Area: B6*

Chemistry: Graduate

- • CHEM 621 - Molecular Spectroscopy *Units: 3*
- • CHEM 631 - Graduate Organic Chemistry *Units: 3*
- • CHEM 641 - Graduate Biochemistry *Units: 3*
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- • CHEM 680 - Seminar *Units: 1*
- • CHEM 681 - Research *Units: 1-2*
- • CHEM 690 - Independent Study *Units: 1-3*
- • CHEM 691 - University Thesis *Units: 2*
- • CHEM 692 - Comprehensive Exam *Units: 2*
- • CHEM 693 - Review Paper *Units: 2*
- • CHEM 697 - Issues in Chemistry *Units: 3*

Department of Communication

The Department Office is located on the 3rd Floor of the Meiklejohn Hall building, Room 3011.

Open 8:00 a.m. - 5:00 p.m., Monday through Friday.

Dept. Phone: (510) 885-3292

Faculty

Professors

Edward S. Inch, Ph.D. University of Washington

Grant Kien, Ph.D. University of Illinois at Urbana-Champaign

Associate Professors

Katherine M. Bell, Ph.D. University of Washington

Lonny J. Brooks, Ph.D. University of California, San Diego

Mary Cardaras (Chair), Ph.D. Northeastern University

Yung-I Liu, Ph.D. Ohio State University

Terry L. West, Ph.D. Southern Illinois University (FERP)

Assistant Professors

Anita Chang, Ph.D. University of California, Santa Cruz

William Lawson, Ph.D. Florida State University

Mission Statement

Graduates will be able to make a positive, professional, and important contribution in the field of communication (Media Environments; Organizational Contexts; and Graduate School) by becoming inclusive, ethical, and effective leaders and participants in global and local communities.

About the Department

Use our university website link to learn more about what the Communication Department has to offer.

- Scholarships
- Faculty Profiles
- Activities & Organizations
- Media
- The Pioneer Online
- Pioneer Web TV
- School of the Arts and Media
- Advising
- And more...

Bachelor

Communication, B.A.: Communication and Media Studies Concentration

Communication, B.A. Program (120 units)

Program Description

The Communication Department features the integration of theories and criticism with the essential skills for media production, professional engagement, and meaningful research. Graduates will be able to make a positive, professional, and important contribution in communication theory and research, Strategic Communication, Multimedia Journalism, and Communication and Media Studies. Students will study, research and analyze the perspectives that will lead to their becoming inclusive, ethical, and effective leaders and participants in global and local communities. They will acquire skills in critical analysis, speaking, writing, and visual presentations across all media. They will learn about the changing world of today's and future media as well as the long history of the relationship between communication, self, and society and they will be prepared for a broad array of careers or graduate studies. All undergraduates must complete 32 units in 8 core courses in communication and elect one of three concentrations: Multimedia Journalism emphasizing digital journalism for social justice that converges print, audio, visual, and video; Strategic Communication that converges the study of Advertising, Public Relations and Organizational Communication; and Communication and Media Studies that is designed to give students maximum flexibility in the 21st century job market while providing ample depth for those wishing to pursue graduate study.

Career Opportunities

Our degree in communication will help to provide both hard and soft skills for placement in the following broad areas: Journalism, Media, Social Media, Video Production, Research, Public Relations, Advertising, Entertainment, and Digital Analytics to name a few.

Google, Facebook, Twitter, GoPro, Pandora, Apple, YouTube, DropBox, Pixar, LucasFilms, Adobe, Oracle, Uber, Lyft are some of the companies that call the Bay Area home. We are actively involved in helping our students land internship and entry level job opportunities at these companies. The Bay Area is also home to a number of television and radio stations, sports networks and sports teams, which provide fertile ground for our aspiring students.

Program Learning Outcomes

Students graduating with a B.A. in Communication from Cal State East Bay will be able to

1. explain and illustrate a thorough knowledge and application of communication theories.
2. demonstrate a comprehension and application of communication research methods.
3. explain, analyze and execute various applications of media creation.
4. analyze and discuss diverse communication perspectives toward communities and peoples.
5. express, evaluate and discuss a perception realizing the significance of sustainability concepts in communication.

Degree Requirements Unit-Outline

- A baccalaureate of arts degree requires a total of 120 units:
- The major requirements consists of 60-62 units
- General Education & Graduation Requirements consists of 57 units ;
- Free Electives may consist of 0 units (actual number of free elective units may depend on GE/GR units).

Note: It may be possible to double-count units within the graduation requirements or that a course may satisfy both a graduation requirement and a major requirement. Students should contact their program and AAC&E advisors for information.

Communication Major Requirements (60-62 units)

Core Coursework

The Communication core coursework consists of 32 units as outlined:

All students must take one (1) from the following two courses for 4 units:

- COMM 202 - Communication, Media and Culture Units: 4
- OR COMM 206 - New Media in the Digital Age Units: 4

All students must also take all of the following seven (7) courses for 28 units:

- COMM 203 - Communication Theories Units: 4
- COMM 224 - Argumentation and Advocacy Units: 4
- COMM 240 - Visual Communication and Culture Units: 4
- COMM 256 - Persuasion Theory and Practice Units: 4
- COMM 304 - Quantitative Communication Research Methods Units: 4
- COMM 305 - Qualitative Communication Research Methods Units: 4
- COMM 433 - Discourses of Difference Units: 4

Concentrations

Students must choose one (1) from the following concentrations to complete the major:

- Communication, B.A.: Communication and Media Studies Concentration
- Communication, B.A.: Multimedia Journalism Concentration
- Communication, B.A.: Strategic Communication Concentration

Communication and Media Studies Concentration

The Communication and Media Studies concentration consists of 28 units outlined as follows:

Students must take the following five (5) courses for 20 units:

- COMM 300 - History and Criticism of Communication Units: 4
- COMM 320 - Persuasion in Media Units: 4
- COMM 330 - Critical/Cultural Studies Units: 4
- COMM 425 - Digital Cultures Units: 4
- COMM 461 - Popular Culture Units: 4

Students must also take two (2) of the following electives for 8 units:

- COMM 323 - Communication of Difference *Units: 4*
- COMM 326 - Social Media and Social Change Literacies *Units: 4*
- COMM 400 - Film, Communication and Culture *Units: 4*
- COMM 416 - Communication, Technology, and Social Change *Units: 4*
- COMM 417 - Game Studies *Units: 4*
- COMM 418 - Organizational Change, Creativity, and Innovation *Units: 4*
- COMM 420 - Organizational Transformation *Units: 4*
- COMM 488 - Conflict Management *Units: 4*
- COMM 497 - Issues in Communication *Units: 4*

Other Undergraduate Degree Requirements

In addition to major requirements, every student must also complete the University's baccalaureate requirements for graduation, which are described in the Requirements, Exams & Testing chapter of this catalog.

Department Courses Listed by Course Type

Communication Courses

Department of Communication

Go to information for this department.

Courses

Communication

- COMM 100 - Public Speaking *Units: 3 ; G.E./G.R. Area: A1*
- COMM 104 - Interpersonal Communication *Units: 3 ; G.E./G.R. Area: A1*
- COMM 202 - Communication, Media and Culture *Units: 4*
- COMM 203 - Communication Theories *Units: 4*
- COMM 206 - New Media in the Digital Age *Units: 4*
- COMM 224 - Argumentation and Advocacy *Units: 4*
- COMM 235 - Famous Politics: Media, Celebrity and Social Life *Units: 3*
- COMM 240 - Visual Communication and Culture *Units: 4*
- COMM 255 - Queer Cultures: Knowledge and Literacy *Units: 3 ; G.E./G.R. Area: D1-3; Social*

Justice

- COMM 256 - Persuasion Theory and Practice *Units: 4*
- COMM 260 - Documentary Film Studies *Units: 3 ; G.E./G.R. Area: C2*
- COMM 266 - Digital Media Production Abroad *Units: 3 ; G.E./G.R. Area: C2*
- COMM 300 - History and Criticism of Communication *Units: 4*
- COMM 304 - Quantitative Communication Research Methods *Units: 4*
- COMM 305 - Qualitative Communication Research Methods *Units: 4*
- COMM 310 - Introduction to Organizational Communication & Long Term Thinking *Units: 4*
- COMM 312 - Journalism History and Social Justice *Units: 4*

- • COMM 314 - Journalism Theory and Practice *Units: 4*
- • COMM 316 - Media and Government *Units: 4*
- • COMM 318 - Journalism Law and Ethics *Units: 4*
- • COMM 320 - Persuasion in Media *Units: 4*
- • COMM 321 - Research in Persuasive Communication *Units: 4*
- • COMM 323 - Communication of Difference *Units: 4*
- • COMM 326 - Social Media and Social Change Literacies *Units: 4*
- • COMM 328 - Multimedia Reporting & Writing I *Units: 4*
- • COMM 330 - Critical/Cultural Studies *Units: 4*
- • COMM 333 - Photojournalism *Units: 2*
- • COMM 335 - Visual and Multimedia Storytelling I *Units: 2*
- • COMM 357 - Principles of Advertising *Units: 4*
- • COMM 358 - Principles of Public Relations *Units: 4*
- • COMM 361 - Professional Speaking in Strategic Communication *Units: 4*
- • COMM 362 - User Experience Research and Design *Units: 4*
- • COMM 369 - Documentary History and Theory Abroad *Units: 4 ; G.E./G.R. Area: C4*
- • COMM 387 - Advertising Design and Production *Units: 4*
- • COMM 388 - Public Relations Practice *Units: 4*
- • COMM 398 - Internship *Units: 1-4*
- • COMM 400 - Film, Communication and Culture *Units: 4*
- • COMM 410 - Organizing Cultures of Innovation and Empathy *Units: 4*
- • COMM 416 - Communication, Technology, and Social Change *Units: 4*
- • COMM 417 - Game Studies *Units: 4*
- • COMM 418 - Organizational Change, Creativity, and Innovation *Units: 4*
- • COMM 420 - Organizational Transformation *Units: 4*
- • COMM 425 - Digital Cultures *Units: 4*
- • COMM 428 - Multimedia Reporting and Writing II *Units: 4*
- • COMM 430 - Media Studies *Units: 4*
- • COMM 433 - Discourses of Difference *Units: 4*
- • COMM 435 - Visual and Multimedia Storytelling II *Units: 2*
- • COMM 453 - Strategic Communication Campaigns *Units: 4*
- • COMM 455 - Communication, Media, and Society *Units: 4*
- • COMM 461 - Popular Culture *Units: 4*
- • COMM 465 - Identity and Difference in Media *Units: 4*
- • COMM 470 - Communication Campaigns *Units: 4*
- • COMM 471 - Strategic Communication and Difference *Units: 4*
- • COMM 475 - Digital Organizational Communication *Units: 4*
- • COMM 480 - Moral Economies of Digital Media *Units: 4*
- • COMM 485 - Future of Media and Society *Units: 4*
- • COMM 488 - Conflict Management *Units: 4*
- • COMM 490 - Independent Study *Units: 1-4*
- • COMM 493 - Capstone: Social Justice Project *Units: 2*
- • COMM 495 - Journalism Practicum *Units: 2*
- • COMM 496 - Topics in Communication *Units: 4*
- • COMM 497 - Issues in Communication *Units: 4*

Communication: Graduate

- • COMM 600 - Introduction to Graduate Study *Units: 1*
- • COMM 601 - Theories in Communication *Units: 4*
- • COMM 602 - Critical Cultural Methods *Units: 4*
- • COMM 603 - Advanced Quantitative Research Methods *Units: 4*

- • COMM 604 - Advanced Qualitative Research Methods *Units: 4*
- • COMM 605 - Contemporary Rhetoric *Units: 4*
- • COMM 620 - Internship in Communication *Units: 1-4*
- • COMM 625 - Teaching Communication *Units: 4*
- • COMM 630 - Media Studies *Units: 4*
- • COMM 640 - Advanced Rhetorical Studies *Units: 4*
- • COMM 645 - Media and Globalization *Units: 4*
- • COMM 655 - Communication, Media, and Society *Units: 4*
- • COMM 665 - Identity and Difference in Media *Units: 4*
- • COMM 670 - Communication Campaigns *Units: 4*
- • COMM 675 - Digital Organizational Communication *Units: 4*
- • COMM 680 - Moral Economies of Digital Media *Units: 4*
- • COMM 685 - Future of Media and Society *Units: 4*
- • COMM 690 - Independent Study *Units: 1-4*
- • COMM 691 - University Thesis *Units: 1-6*
- • COMM 692 - Comprehensive Exams *Units: 2*
- • COMM 693 - Project *Units: 1-6*
- • COMM 696 - Topics in Communication *Units: 4*
- • COMM 697 - Issues In Communication *Units: 4*
- • COMM 698 - Internship *Units: 1-3*

Communication, B.A.: Multimedia Journalism Concentration

Communication, B.A. Program (120 units)

Program Description

The Communication Department features the integration of theories and criticism with the essential skills for media production, professional engagement, and meaningful research. Graduates will be able to make a positive, professional, and important contribution in communication theory and research, Strategic Communication, Multimedia Journalism, and Communication and Media Studies. Students will study, research and analyze the perspectives that will lead to their becoming inclusive, ethical, and effective leaders and participants in global and local communities. They will acquire skills in critical analysis, speaking, writing, and visual presentations across all media. They will learn about the changing world of today's and future media as well as the long history of the relationship between communication, self, and society and they will be prepared for a broad array of careers or graduate studies. All undergraduates must complete 32 units in 8 core courses in communication and elect one of three concentrations: Multimedia Journalism emphasizing digital journalism for social justice that converges print, audio, visual, and video; Strategic Communication that converges the study of Advertising, Public Relations and Organizational Communication; and Communication and Media Studies that is designed to give students maximum flexibility in the 21st century job market while providing ample depth for those wishing to pursue graduate study.

Career Opportunities

Our degree in communication will help to provide both hard and soft skills for placement in the following broad areas: Journalism, Media, Social Media, Video Production, Research, Public Relations, Advertising, Entertainment, and Digital Analytics to name a few.

Google, Facebook, Twitter, GoPro, Pandora, Apple, YouTube, DropBox, Pixar, LucasFilms, Adobe, Oracle, Uber, Lyft are some of the companies that call the Bay Area home. We are actively involved in helping our students land internship and entry level job opportunities at these companies. The Bay Area is also home to a number of television and radio stations, sports networks and sports teams, which provide fertile ground for our aspiring students.

Program Learning Outcomes

Students graduating with a B.A. in Communication from Cal State East Bay will be able to

1. explain and illustrate a thorough knowledge and application of communication theories.
2. demonstrate a comprehension and application of communication research methods.
3. explain, analyze and execute various applications of media creation.
4. analyze and discuss diverse communication perspectives toward communities and peoples.
5. express, evaluate and discuss a perception realizing the significance of sustainability concepts in communication.

Degree Requirements Unit-Outline

- A baccalaureate of arts degree requires a total of 120 units:
 - The major requirements consists of 60-62 units
 - General Education & Graduation Requirements consists of 57 units ;
 - Free Electives may consist of 0 units (actual number of free elective units may depend on GE/GR units).

Note: It may be possible to double-count units within the graduation requirements or that a course may satisfy both a graduation requirement and a major requirement. Students should contact their program and AACE advisors for information.

Communication Major Requirements (60-62 units)

Core Coursework

The Communication core coursework consists of 32 units as outlined:

All students must take one (1) from the following two courses for 4 units:

- COMM 202 - Communication, Media and Culture Units: 4
- OR COMM 206 - New Media in the Digital Age Units: 4

All students must also take all of the following seven (7) courses for 28 units:

- COMM 203 - Communication Theories Units: 4
- COMM 224 - Argumentation and Advocacy Units: 4
- COMM 240 - Visual Communication and Culture Units: 4
- COMM 256 - Persuasion Theory and Practice Units: 4
- COMM 304 - Quantitative Communication Research Methods Units: 4
- COMM 305 - Qualitative Communication Research Methods Units: 4
- COMM 433 - Discourses of Difference Units: 4

Concentrations

Students must choose one (1) from the following concentrations to complete the major:

- Communication, B.A.: Communication and Media Studies Concentration
- Communication, B.A.: Multimedia Journalism Concentration
- Communication, B.A.: Strategic Communication Concentration

Multimedia Journalism Concentration

The Multimedia Journalism concentration consists of 30 units as outline as follows:

Students must take all of the following courses for 24 units:

- COMM 312 - Journalism History and Social Justice *Units: 4*
- COMM 314 - Journalism Theory and Practice *Units: 4*
- COMM 318 - Journalism Law and Ethics *Units: 4*
- COMM 328 - Multimedia Reporting & Writing I *Units: 4*
- COMM 333 - Photojournalism *Units: 2*
- COMM 335 - Visual and Multimedia Storytelling I *Units: 2*
- COMM 435 - Visual and Multimedia Storytelling II *Units: 2*
- COMM 495 - Journalism Practicum *Units: 2*

Plus, students must also choose one (1) from the following two courses for 4 units:

- COMM 316 - Media and Government *Units: 4*
- OR COMM 428 - Multimedia Reporting and Writing II *Units: 4*

All Multimedia Journalism concentration students must take the following Capstone Project for 2 units to complete the major:

- COMM 493 - Capstone: Social Justice Project *Units: 2*

Other Undergraduate Degree Requirements

In addition to major requirements, every student must also complete the University's baccalaureate requirements for graduation, which are described in the Requirements, Exams & Testing chapter of this catalog.

Department Courses Listed by Course Type

Communication Courses

Department of Communication

Go to information for this department.

Courses

Communication

- COMM 100 - Public Speaking *Units: 3 ; G.E./G.R. Area: A1*

- COMM 104 - Interpersonal Communication *Units: 3 ; G.E./G.R. Area: A1*
- COMM 202 - Communication, Media and Culture *Units: 4*
- COMM 203 - Communication Theories *Units: 4*
- COMM 206 - New Media in the Digital Age *Units: 4*
- COMM 224 - Argumentation and Advocacy *Units: 4*
- COMM 235 - Famous Politics: Media, Celebrity and Social Life *Units: 3*
- COMM 240 - Visual Communication and Culture *Units: 4*
- COMM 255 - Queer Cultures: Knowledge and Literacy *Units: 3 ; G.E./G.R. Area: D1-3; Social*

Justice

- COMM 256 - Persuasion Theory and Practice *Units: 4*
- COMM 260 - Documentary Film Studies *Units: 3 ; G.E./G.R. Area: C2*
- COMM 266 - Digital Media Production Abroad *Units: 3 ; G.E./G.R. Area: C2*
- COMM 300 - History and Criticism of Communication *Units: 4*
- COMM 304 - Quantitative Communication Research Methods *Units: 4*
- COMM 305 - Qualitative Communication Research Methods *Units: 4*
- COMM 310 - Introduction to Organizational Communication & Long Term Thinking *Units: 4*
- COMM 312 - Journalism History and Social Justice *Units: 4*
- COMM 314 - Journalism Theory and Practice *Units: 4*
- COMM 316 - Media and Government *Units: 4*
- COMM 318 - Journalism Law and Ethics *Units: 4*
- COMM 320 - Persuasion in Media *Units: 4*
- COMM 321 - Research in Persuasive Communication *Units: 4*
- COMM 323 - Communication of Difference *Units: 4*
- COMM 326 - Social Media and Social Change Literacies *Units: 4*
- COMM 328 - Multimedia Reporting & Writing I *Units: 4*
- COMM 330 - Critical/Cultural Studies *Units: 4*
- COMM 333 - Photojournalism *Units: 2*
- COMM 335 - Visual and Multimedia Storytelling I *Units: 2*
- COMM 357 - Principles of Advertising *Units: 4*
- COMM 358 - Principles of Public Relations *Units: 4*
- COMM 361 - Professional Speaking in Strategic Communication *Units: 4*
- COMM 362 - User Experience Research and Design *Units: 4*
- COMM 369 - Documentary History and Theory Abroad *Units: 4 ; G.E./G.R. Area: C4*
- COMM 387 - Advertising Design and Production *Units: 4*
- COMM 388 - Public Relations Practice *Units: 4*
- COMM 398 - Internship *Units: 1-4*
- COMM 400 - Film, Communication and Culture *Units: 4*
- COMM 410 - Organizing Cultures of Innovation and Empathy *Units: 4*
- COMM 416 - Communication, Technology, and Social Change *Units: 4*
- COMM 417 - Game Studies *Units: 4*
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- COMM 420 - Organizational Transformation *Units: 4*
- COMM 425 - Digital Cultures *Units: 4*
- COMM 428 - Multimedia Reporting and Writing II *Units: 4*
- COMM 430 - Media Studies *Units: 4*
- COMM 433 - Discourses of Difference *Units: 4*
- COMM 435 - Visual and Multimedia Storytelling II *Units: 2*
- COMM 453 - Strategic Communication Campaigns *Units: 4*
- COMM 455 - Communication, Media, and Society *Units: 4*
- COMM 461 - Popular Culture *Units: 4*
- COMM 465 - Identity and Difference in Media *Units: 4*

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- COMM 488 - Conflict Management *Units: 4*
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- COMM 495 - Journalism Practicum *Units: 2*
- COMM 496 - Topics in Communication *Units: 4*
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- COMM 600 - Introduction to Graduate Study *Units: 1*
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- COMM 691 - University Thesis *Units: 1-6*
- COMM 692 - Comprehensive Exams *Units: 2*
- COMM 693 - Project *Units: 1-6*
- COMM 696 - Topics in Communication *Units: 4*
- COMM 697 - Issues In Communication *Units: 4*
- COMM 698 - Internship *Units: 1-3*

Communication, B.A.: Strategic Communication Concentration

Communication, B.A. Program (120 units)

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5. express, evaluate and discuss a perception realizing the significance of sustainability concepts in communication.

Degree Requirements Unit-Outline

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 - General Education & Graduation Requirements consists of 57 units ;
 - Free Electives may consist of 0 units (actual number of free elective units may depend on GE/GR units).

Note: It may be possible to double-count units within the graduation requirements or that a course may satisfy both a graduation requirement and a major requirement. Students should contact their program and AACE advisors for information.

Communication Major Requirements (60-62 units)

Core Coursework

The Communication core coursework consists of 32 units as outlined:

All students must take one (1) from the following two courses for 4 units:

- COMM 202 - Communication, Media and Culture *Units: 4*
- OR COMM 206 - New Media in the Digital Age *Units: 4*

All students must also take all of the following seven (7) courses for 28 units:

- COMM 203 - Communication Theories *Units: 4*
- COMM 224 - Argumentation and Advocacy *Units: 4*
- COMM 240 - Visual Communication and Culture *Units: 4*
- COMM 256 - Persuasion Theory and Practice *Units: 4*
- COMM 304 - Quantitative Communication Research Methods *Units: 4*
- COMM 305 - Qualitative Communication Research Methods *Units: 4*
- COMM 433 - Discourses of Difference *Units: 4*

Concentrations

Students must choose one (1) from the following concentrations to complete the major:

- Communication, B.A.: Communication and Media Studies Concentration
- Communication, B.A.: Multimedia Journalism Concentration
- Communication, B.A.: Strategic Communication Concentration

Strategic Communication Concentration

The Strategic Communication concentration consists of 28 units as outlined as follows:

Students must take all of the following courses for 24 units:

- COMM 310 - Introduction to Organizational Communication & Long Term Thinking *Units: 4*
- COMM 321 - Research in Persuasive Communication *Units: 4*
- COMM 357 - Principles of Advertising *Units: 4*
- COMM 358 - Principles of Public Relations *Units: 4*
- COMM 387 - Advertising Design and Production *Units: 4*
- COMM 453 - Strategic Communication Campaigns *Units: 4*

Students must choose one (1) course from the following for 4 units:

- COMM 314 - Journalism Theory and Practice *Units: 4*
- COMM 326 - Social Media and Social Change Literacies *Units: 4*
- COMM 328 - Multimedia Reporting & Writing I *Units: 4*
- COMM 361 - Professional Speaking in Strategic Communication *Units: 4*
- COMM 362 - User Experience Research and Design *Units: 4*
- COMM 388 - Public Relations Practice *Units: 4*
- COMM 398 - Internship *Units: 1-4*
- COMM 410 - Organizing Cultures of Innovation and Empathy *Units: 4*
- COMM 420 - Organizational Transformation *Units: 4*

- COMM 471 - Strategic Communication and Difference *Units: 4*

Other Undergraduate Degree Requirements

In addition to major requirements, every student must also complete the University's baccalaureate requirements for graduation, which are described in the Requirements, Exams & Testing chapter of this catalog.

Department Courses Listed by Course Type

Communication Courses

Department of Communication

Go to information for this department.

Courses

Communication

- COMM 100 - Public Speaking *Units: 3 ; G.E./G.R. Area: A1*
- COMM 104 - Interpersonal Communication *Units: 3 ; G.E./G.R. Area: A1*
- COMM 202 - Communication, Media and Culture *Units: 4*
- COMM 203 - Communication Theories *Units: 4*
- COMM 206 - New Media in the Digital Age *Units: 4*
- COMM 224 - Argumentation and Advocacy *Units: 4*
- COMM 235 - Famous Politics: Media, Celebrity and Social Life *Units: 3*
- COMM 240 - Visual Communication and Culture *Units: 4*
- COMM 255 - Queer Cultures: Knowledge and Literacy *Units: 3 ; G.E./G.R. Area: D1-3; Social Justice*
- COMM 256 - Persuasion Theory and Practice *Units: 4*
- COMM 260 - Documentary Film Studies *Units: 3 ; G.E./G.R. Area: C2*
- COMM 266 - Digital Media Production Abroad *Units: 3 ; G.E./G.R. Area: C2*
- COMM 300 - History and Criticism of Communication *Units: 4*
- COMM 304 - Quantitative Communication Research Methods *Units: 4*
- COMM 305 - Qualitative Communication Research Methods *Units: 4*
- COMM 310 - Introduction to Organizational Communication & Long Term Thinking *Units: 4*
- COMM 312 - Journalism History and Social Justice *Units: 4*
- COMM 314 - Journalism Theory and Practice *Units: 4*
- COMM 316 - Media and Government *Units: 4*
- COMM 318 - Journalism Law and Ethics *Units: 4*
- COMM 320 - Persuasion in Media *Units: 4*
- COMM 321 - Research in Persuasive Communication *Units: 4*
- COMM 323 - Communication of Difference *Units: 4*
- COMM 326 - Social Media and Social Change Literacies *Units: 4*
- COMM 328 - Multimedia Reporting & Writing I *Units: 4*
- COMM 330 - Critical/Cultural Studies *Units: 4*
- COMM 333 - Photojournalism *Units: 2*
- COMM 335 - Visual and Multimedia Storytelling I *Units: 2*

- • COMM 357 - Principles of Advertising *Units: 4*
- • COMM 358 - Principles of Public Relations *Units: 4*
- • COMM 361 - Professional Speaking in Strategic Communication *Units: 4*
- • COMM 362 - User Experience Research and Design *Units: 4*
- • COMM 369 - Documentary History and Theory Abroad *Units: 4 ; G.E./G.R. Area: C4*
- • COMM 387 - Advertising Design and Production *Units: 4*
- • COMM 388 - Public Relations Practice *Units: 4*
- • COMM 398 - Internship *Units: 1-4*
- • COMM 400 - Film, Communication and Culture *Units: 4*
- • COMM 410 - Organizing Cultures of Innovation and Empathy *Units: 4*
- • COMM 416 - Communication, Technology, and Social Change *Units: 4*
- • COMM 417 - Game Studies *Units: 4*
- • COMM 418 - Organizational Change, Creativity, and Innovation *Units: 4*
- • COMM 420 - Organizational Transformation *Units: 4*
- • COMM 425 - Digital Cultures *Units: 4*
- • COMM 428 - Multimedia Reporting and Writing II *Units: 4*
- • COMM 430 - Media Studies *Units: 4*
- • COMM 433 - Discourses of Difference *Units: 4*
- • COMM 435 - Visual and Multimedia Storytelling II *Units: 2*
- • COMM 453 - Strategic Communication Campaigns *Units: 4*
- • COMM 455 - Communication, Media, and Society *Units: 4*
- • COMM 461 - Popular Culture *Units: 4*
- • COMM 465 - Identity and Difference in Media *Units: 4*
- • COMM 470 - Communication Campaigns *Units: 4*
- • COMM 471 - Strategic Communication and Difference *Units: 4*
- • COMM 475 - Digital Organizational Communication *Units: 4*
- • COMM 480 - Moral Economies of Digital Media *Units: 4*
- • COMM 485 - Future of Media and Society *Units: 4*
- • COMM 488 - Conflict Management *Units: 4*
- • COMM 490 - Independent Study *Units: 1-4*
- • COMM 493 - Capstone: Social Justice Project *Units: 2*
- • COMM 495 - Journalism Practicum *Units: 2*
- • COMM 496 - Topics in Communication *Units: 4*
- • COMM 497 - Issues in Communication *Units: 4*

Communication: Graduate

- • COMM 600 - Introduction to Graduate Study *Units: 1*
- • COMM 601 - Theories in Communication *Units: 4*
- • COMM 602 - Critical Cultural Methods *Units: 4*
- • COMM 603 - Advanced Quantitative Research Methods *Units: 4*
- • COMM 604 - Advanced Qualitative Research Methods *Units: 4*
- • COMM 605 - Contemporary Rhetoric *Units: 4*
- • COMM 620 - Internship in Communication *Units: 1-4*
- • COMM 625 - Teaching Communication *Units: 4*
- • COMM 630 - Media Studies *Units: 4*
- • COMM 640 - Advanced Rhetorical Studies *Units: 4*
- • COMM 645 - Media and Globalization *Units: 4*
- • COMM 655 - Communication, Media, and Society *Units: 4*
- • COMM 665 - Identity and Difference in Media *Units: 4*
- • COMM 670 - Communication Campaigns *Units: 4*
- • COMM 675 - Digital Organizational Communication *Units: 4*

- • COMM 680 - Moral Economies of Digital Media *Units: 4*
- • COMM 685 - Future of Media and Society *Units: 4*
- • COMM 690 - Independent Study *Units: 1-4*
- • COMM 691 - University Thesis *Units: 1-6*
- • COMM 692 - Comprehensive Exams *Units: 2*
- • COMM 693 - Project *Units: 1-6*
- • COMM 696 - Topics in Communication *Units: 4*
- • COMM 697 - Issues In Communication *Units: 4*
- • COMM 698 - Internship *Units: 1-3*

Master

Communication, M.A.

Communication, M.A. Program

Program Description

The Master of Arts degree in Communication is a dynamic, flexible program in the heart of the Bay Area. As a student, you will join an energetic community of active scholars engaged in a wide range of research interests. You will learn foundational approaches to theory, criticism, research, and ethics in communication that prepare students for the public and professional spheres, on local, national, and international levels. As a student you will construct a program of interest to you, with a solid foundation in communication theory and research. Your experience will include specialized seminars from a variety of areas including: rhetoric, cultural studies, organizational communication, media studies, strategic communication and political communication. The program consists of 31 units including: core courses, graduate elective seminars, and independent study courses. The culminating experience is a thesis, project, or comprehensive exam.

Program Learning Outcomes:

- Engage critical/creative thinking toward a convergent praxis of theory and applications relevant to the communication discipline/field;
- Conduct original research adding to the discovery of knowledge in the communication discipline/field;
- Demonstrate results of original research in the communication discipline/field through presentation in written, oral, or mediated formats;
- Develop critical and cultural perspectives for promoting social justice through communication.
- Demonstrate mastery in the scholarly discipline/field of communication.

Career Opportunities

Our program prepares you for advancement in communication and media-related fields. Students with an M.A. in Communication work in areas such as teaching, media technologies, journalism, consulting, human resources, communication training, management, sales, government, and politics. Numerous students use the degree as preparation for Ph.D. and law degrees.

Admission Requirements

A Bachelor's degree in Communication or a related field/discipline. A GPA of 3.0 or higher.

Application for admission includes two parts:

1. Submit the online University application at CALSTATE Apply;
 2. Submit the department application form, a statement of purpose, three letters of recommendation, and a sample of scholarly writing to the Graduate Coordinator, Department of Communication, Cal State East Bay, Hayward, CA 94542. Links to both university and department application forms are available on the Department of Communication website.
- For CSUEB Communication undergraduates we offer a streamlined application process that requires only one letter of recommendation from a current CSUEB faculty member.

The program accepts students in both Fall and Spring semesters.

Student Standing and Progress Toward the Degree

You may be admitted under one of the following:

"Classified Graduate" Standing

For admission with "Classified Graduate" standing to the M.A. program in Communication, students must:

- Submit an application to pursue a specific program of graduate study and be accepted by the department and the university;
- Have completed a baccalaureate major in Communication from an accredited institution, or appropriate preparatory coursework approved by the faculty;
- Have maintained an overall grade point average of at least 3.00, and
- Satisfied the University Writing Skills Requirement.

"Conditionally Classified Graduate" Standing

If a student's degree is in another field, or if the University Writing Skills Requirement has not been satisfied, it may be possible to be admitted with "Conditionally Classified Graduate" standing. In this case, students are admitted graduate students but may have additional course work to satisfy. Student status will remain conditional until the work is completed with a minimum of "B" or better average and the student has passed the Writing Skills Test.

Degree Requirements

The M.A. in Communication requires completion of 31 units in an approved program of study, with a "B" (3.0) or better.

All courses are four units unless otherwise specified. In cases of transferred credit, a minimum of 24 units must be completed at CSU East Bay.

Writing Skills Requirement

All students must meet the University Writing Skills Requirement (UWSR) to become fully "Classified Graduate" students. Graduate students must begin satisfaction of this requirement in their first semester of their residency.

Attainment of "Classified Graduate" Standing

To attain "Classified Graduate" standing, a student must have completed all prerequisites with grades of "B" or better and satisfied the University Writing Skills Requirement. Notify the graduate advisor immediately upon completion, and request that s(he) complete the necessary paper work.

Advancement to Candidacy

To be Advanced to Candidacy for the M.A. degree in Communication, the student must:

1. be a "Classified Graduate" student in good standing;
2. complete 27 semester units beyond the prerequisites with at least "B" grades;
3. choose a program advisor;
4. submit a study plan for completion of the degree program to the program advisor;
5. have the thesis proposal or project proposal approved by their graduate adviser, if applicable;
6. show evidence of progress and ability to complete the program.

Communication Degree Requirements (31 units)

Core Requirements

All students must take 13 units of core courses:

- COMM 600 - Introduction to Graduate Study *Units: 1*
- COMM 601 - Theories in Communication *Units: 4*

Choose one (1) of the two courses listed for 4 units:

- COMM 602 - Critical Cultural Methods *Units: 4*
- COMM 605 - Contemporary Rhetoric *Units: 4*

Choose one (1) of the two courses listed for 4 units:

- COMM 603 - Advanced Quantitative Research Methods *Units: 4*
- COMM 604 - Advanced Qualitative Research Methods *Units: 4*

Elective Courses

All students must take a minimum of 12 units from the following 4-unit courses:

- COMM 620 - Internship in Communication *Units: 1-4*
- COMM 625 - Teaching Communication *Units: 4*
- COMM 630 - Media Studies *Units: 4*
- COMM 640 - Advanced Rhetorical Studies *Units: 4*
- COMM 645 - Media and Globalization *Units: 4*

- COMM 655 - Communication, Media, and Society *Units: 4*
- COMM 665 - Identity and Difference in Media *Units: 4*
- COMM 670 - Communication Campaigns *Units: 4*
- COMM 675 - Digital Organizational Communication *Units: 4*
- COMM 680 - Moral Economies of Digital Media *Units: 4*
- COMM 685 - Future of Media and Society *Units: 4*
- COMM 696 - Topics in Communication *Units: 4*
- Up to 8 units of 400-level Communication courses may count as electives with Department approval.

Capstone Requirements

All students must complete one (1) of the following Capstone experiences for 2-6 units:

- **COMM 691 - University Thesis** *Units: 1-6*
Upon approval of the student's graduate committee, a student may elect the University Thesis for 6 units; the student will carry out research on a specific topic in the field and will report, review, and file the results, and will be examined on the thesis. Students electing the University Thesis capstone will sit for an oral defense of the thesis at its completion.
- **COMM 692 - Comprehensive Exams** *Units: 2*
A student who selects the comprehensive exam capstone must elect a program made up entirely of a minimum of 31 units of approved coursework, including COMM 692 for 2 units. Satisfactory achievement on comprehensive written and oral examinations will be required of students electing the coursework and examination option. For the comprehensive examination, the student will be tested on all coursework taken during their graduate study, including all required courses and any coursework in progress during the semester of examination.
- **COMM 693 - Project** *Units: 1-6*
Upon approval of the student's graduate committee, a student may elect the Project capstone for 6 units; enrollment commits the student to a production of a piece of work which is to follow prescribed forms; a permanent record is to be filed in the departmental office. Students electing the Project capstone will sit for an oral defense of their project at its completion.

Other Graduate & Post-Baccalaureate Degree Requirements

In addition to departmental requirements, every student must also satisfy the University requirements for graduation as described throughout this catalog. These include the 70% unit residence requirement; the five-year rule on currency of subject matter; the minimum number of units in 600-level courses; the "C" minimum grade for each graduate course; the 3.00 cumulative grade point average; and the University Writing Skills Requirement.

Note: For information on meeting the University Writing Skills Requirement, see the Testing Office website at www.csueastbay.edu/testing or call (510) 885-3661.

Department Courses Listed by Course Type

Communication Courses

Department of Communication

Go to information for this department.

Courses

Communication

- COMM 100 - Public Speaking *Units: 3 ; G.E./G.R. Area: A1*
- COMM 104 - Interpersonal Communication *Units: 3 ; G.E./G.R. Area: A1*
- COMM 202 - Communication, Media and Culture *Units: 4*
- COMM 203 - Communication Theories *Units: 4*
- COMM 206 - New Media in the Digital Age *Units: 4*
- COMM 224 - Argumentation and Advocacy *Units: 4*
- COMM 235 - Famous Politics: Media, Celebrity and Social Life *Units: 3*
- COMM 240 - Visual Communication and Culture *Units: 4*
- COMM 255 - Queer Cultures: Knowledge and Literacy *Units: 3 ; G.E./G.R. Area: D1-3; Social*

Justice

- COMM 256 - Persuasion Theory and Practice *Units: 4*
- COMM 260 - Documentary Film Studies *Units: 3 ; G.E./G.R. Area: C2*
- COMM 266 - Digital Media Production Abroad *Units: 3 ; G.E./G.R. Area: C2*
- COMM 300 - History and Criticism of Communication *Units: 4*
- COMM 304 - Quantitative Communication Research Methods *Units: 4*
- COMM 305 - Qualitative Communication Research Methods *Units: 4*
- COMM 310 - Introduction to Organizational Communication & Long Term Thinking *Units: 4*
- COMM 312 - Journalism History and Social Justice *Units: 4*
- COMM 314 - Journalism Theory and Practice *Units: 4*
- COMM 316 - Media and Government *Units: 4*
- COMM 318 - Journalism Law and Ethics *Units: 4*
- COMM 320 - Persuasion in Media *Units: 4*
- COMM 321 - Research in Persuasive Communication *Units: 4*
- COMM 323 - Communication of Difference *Units: 4*
- COMM 326 - Social Media and Social Change Literacies *Units: 4*
- COMM 328 - Multimedia Reporting & Writing I *Units: 4*
- COMM 330 - Critical/Cultural Studies *Units: 4*
- COMM 333 - Photojournalism *Units: 2*
- COMM 335 - Visual and Multimedia Storytelling I *Units: 2*
- COMM 357 - Principles of Advertising *Units: 4*
- COMM 358 - Principles of Public Relations *Units: 4*
- COMM 361 - Professional Speaking in Strategic Communication *Units: 4*
- COMM 362 - User Experience Research and Design *Units: 4*
- COMM 369 - Documentary History and Theory Abroad *Units: 4 ; G.E./G.R. Area: C4*
- COMM 387 - Advertising Design and Production *Units: 4*
- COMM 388 - Public Relations Practice *Units: 4*
- COMM 398 - Internship *Units: 1-4*
- COMM 400 - Film, Communication and Culture *Units: 4*
- COMM 410 - Organizing Cultures of Innovation and Empathy *Units: 4*
- COMM 416 - Communication, Technology, and Social Change *Units: 4*
- COMM 417 - Game Studies *Units: 4*
- COMM 418 - Organizational Change, Creativity, and Innovation *Units: 4*
- COMM 420 - Organizational Transformation *Units: 4*
- COMM 425 - Digital Cultures *Units: 4*
- COMM 428 - Multimedia Reporting and Writing II *Units: 4*

- • COMM 430 - Media Studies *Units: 4*
- • COMM 433 - Discourses of Difference *Units: 4*
- • COMM 435 - Visual and Multimedia Storytelling II *Units: 2*
- • COMM 453 - Strategic Communication Campaigns *Units: 4*
- • COMM 455 - Communication, Media, and Society *Units: 4*
- • COMM 461 - Popular Culture *Units: 4*
- • COMM 465 - Identity and Difference in Media *Units: 4*
- • COMM 470 - Communication Campaigns *Units: 4*
- • COMM 471 - Strategic Communication and Difference *Units: 4*
- • COMM 475 - Digital Organizational Communication *Units: 4*
- • COMM 480 - Moral Economies of Digital Media *Units: 4*
- • COMM 485 - Future of Media and Society *Units: 4*
- • COMM 488 - Conflict Management *Units: 4*
- • COMM 490 - Independent Study *Units: 1-4*
- • COMM 493 - Capstone: Social Justice Project *Units: 2*
- • COMM 495 - Journalism Practicum *Units: 2*
- • COMM 496 - Topics in Communication *Units: 4*
- • COMM 497 - Issues in Communication *Units: 4*

Communication: Graduate

- • COMM 600 - Introduction to Graduate Study *Units: 1*
- • COMM 601 - Theories in Communication *Units: 4*
- • COMM 602 - Critical Cultural Methods *Units: 4*
- • COMM 603 - Advanced Quantitative Research Methods *Units: 4*
- • COMM 604 - Advanced Qualitative Research Methods *Units: 4*
- • COMM 605 - Contemporary Rhetoric *Units: 4*
- • COMM 620 - Internship in Communication *Units: 1-4*
- • COMM 625 - Teaching Communication *Units: 4*
- • COMM 630 - Media Studies *Units: 4*
- • COMM 640 - Advanced Rhetorical Studies *Units: 4*
- • COMM 645 - Media and Globalization *Units: 4*
- • COMM 655 - Communication, Media, and Society *Units: 4*
- • COMM 665 - Identity and Difference in Media *Units: 4*
- • COMM 670 - Communication Campaigns *Units: 4*
- • COMM 675 - Digital Organizational Communication *Units: 4*
- • COMM 680 - Moral Economies of Digital Media *Units: 4*
- • COMM 685 - Future of Media and Society *Units: 4*
- • COMM 690 - Independent Study *Units: 1-4*
- • COMM 691 - University Thesis *Units: 1-6*
- • COMM 692 - Comprehensive Exams *Units: 2*
- • COMM 693 - Project *Units: 1-6*
- • COMM 696 - Topics in Communication *Units: 4*
- • COMM 697 - Issues In Communication *Units: 4*
- • COMM 698 - Internship *Units: 1-3*

Minor

Communication Minor

Minor Requirements

The Communication Minor requires students to take six (6) core courses and one (1) elective course for 28 units.

Required Core

Students must take the following 24 units:

- COMM 202 - Communication, Media and Culture *Units: 4*
- COMM 203 - Communication Theories *Units: 4*
- COMM 206 - New Media in the Digital Age *Units: 4*
- OR COMM 240 - Visual Communication and Culture *Units: 4*
- COMM 300 - History and Criticism of Communication *Units: 4*
- COMM 304 - Quantitative Communication Research Methods *Units: 4*
- COMM 305 - Qualitative Communication Research Methods *Units: 4*

Elective

Students must take one (1) of the following courses for 4 units selected in consultation with an advisor:

- COMM 310 - Introduction to Organizational Communication & Long Term Thinking *Units: 4*
- COMM 312 - Journalism History and Social Justice *Units: 4*
- COMM 314 - Journalism Theory and Practice *Units: 4*
- COMM 316 - Media and Government *Units: 4*
- COMM 318 - Journalism Law and Ethics *Units: 4*
- COMM 320 - Persuasion in Media *Units: 4*
- COMM 321 - Research in Persuasive Communication *Units: 4*
- COMM 323 - Communication of Difference *Units: 4*
- COMM 326 - Social Media and Social Change Literacies *Units: 4*
- COMM 328 - Multimedia Reporting & Writing I *Units: 4*
- COMM 330 - Critical/Cultural Studies *Units: 4*
- COMM 357 - Principles of Advertising *Units: 4*
- COMM 358 - Principles of Public Relations *Units: 4*
- COMM 361 - Professional Speaking in Strategic Communication *Units: 4*
- COMM 362 - User Experience Research and Design *Units: 4*
- COMM 387 - Advertising Design and Production *Units: 4*
- COMM 388 - Public Relations Practice *Units: 4*
- COMM 400 - Film, Communication and Culture *Units: 4*
- COMM 410 - Organizing Cultures of Innovation and Empathy *Units: 4*
- COMM 416 - Communication, Technology, and Social Change *Units: 4*
- COMM 417 - Game Studies *Units: 4*

- COMM 418 - Organizational Change, Creativity, and Innovation *Units: 4*
- COMM 420 - Organizational Transformation *Units: 4*
- COMM 425 - Digital Cultures *Units: 4*
- COMM 428 - Multimedia Reporting and Writing II *Units: 4*
- COMM 430 - Media Studies *Units: 4*
- COMM 453 - Strategic Communication Campaigns *Units: 4*
- COMM 455 - Communication, Media, and Society *Units: 4*
- COMM 461 - Popular Culture *Units: 4*
- COMM 465 - Identity and Difference in Media *Units: 4*
- COMM 471 - Strategic Communication and Difference *Units: 4*
- COMM 475 - Digital Organizational Communication *Units: 4*
- COMM 480 - Moral Economies of Digital Media *Units: 4*
- COMM 485 - Future of Media and Society *Units: 4*
- COMM 488 - Conflict Management *Units: 4*
- COMM 497 - Issues in Communication *Units: 4*

Department Courses Listed by Course Type

Communication Courses

Department of Communication

Go to information for this department.

Courses

Communication

- COMM 100 - Public Speaking *Units: 3 ; G.E./G.R. Area: A1*
- COMM 104 - Interpersonal Communication *Units: 3 ; G.E./G.R. Area: A1*
- COMM 202 - Communication, Media and Culture *Units: 4*
- COMM 203 - Communication Theories *Units: 4*
- COMM 206 - New Media in the Digital Age *Units: 4*
- COMM 224 - Argumentation and Advocacy *Units: 4*
- COMM 235 - Famous Politics: Media, Celebrity and Social Life *Units: 3*
- COMM 240 - Visual Communication and Culture *Units: 4*
- COMM 255 - Queer Cultures: Knowledge and Literacy *Units: 3 ; G.E./G.R. Area: D1-3; Social*

Justice

- COMM 256 - Persuasion Theory and Practice *Units: 4*
- COMM 260 - Documentary Film Studies *Units: 3 ; G.E./G.R. Area: C2*
- COMM 266 - Digital Media Production Abroad *Units: 3 ; G.E./G.R. Area: C2*
- COMM 300 - History and Criticism of Communication *Units: 4*
- COMM 304 - Quantitative Communication Research Methods *Units: 4*
- COMM 305 - Qualitative Communication Research Methods *Units: 4*
- COMM 310 - Introduction to Organizational Communication & Long Term Thinking *Units: 4*
- COMM 312 - Journalism History and Social Justice *Units: 4*
- COMM 314 - Journalism Theory and Practice *Units: 4*

- • COMM 316 - Media and Government *Units: 4*
- • COMM 318 - Journalism Law and Ethics *Units: 4*
- • COMM 320 - Persuasion in Media *Units: 4*
- • COMM 321 - Research in Persuasive Communication *Units: 4*
- • COMM 323 - Communication of Difference *Units: 4*
- • COMM 326 - Social Media and Social Change Literacies *Units: 4*
- • COMM 328 - Multimedia Reporting & Writing I *Units: 4*
- • COMM 330 - Critical/Cultural Studies *Units: 4*
- • COMM 333 - Photojournalism *Units: 2*
- • COMM 335 - Visual and Multimedia Storytelling I *Units: 2*
- • COMM 357 - Principles of Advertising *Units: 4*
- • COMM 358 - Principles of Public Relations *Units: 4*
- • COMM 361 - Professional Speaking in Strategic Communication *Units: 4*
- • COMM 362 - User Experience Research and Design *Units: 4*
- • COMM 369 - Documentary History and Theory Abroad *Units: 4 ; G.E./G.R. Area: C4*
- • COMM 387 - Advertising Design and Production *Units: 4*
- • COMM 388 - Public Relations Practice *Units: 4*
- • COMM 398 - Internship *Units: 1-4*
- • COMM 400 - Film, Communication and Culture *Units: 4*
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- • COMM 418 - Organizational Change, Creativity, and Innovation *Units: 4*
- • COMM 420 - Organizational Transformation *Units: 4*
- • COMM 425 - Digital Cultures *Units: 4*
- • COMM 428 - Multimedia Reporting and Writing II *Units: 4*
- • COMM 430 - Media Studies *Units: 4*
- • COMM 433 - Discourses of Difference *Units: 4*
- • COMM 435 - Visual and Multimedia Storytelling II *Units: 2*
- • COMM 453 - Strategic Communication Campaigns *Units: 4*
- • COMM 455 - Communication, Media, and Society *Units: 4*
- • COMM 461 - Popular Culture *Units: 4*
- • COMM 465 - Identity and Difference in Media *Units: 4*
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- • COMM 485 - Future of Media and Society *Units: 4*
- • COMM 488 - Conflict Management *Units: 4*
- • COMM 490 - Independent Study *Units: 1-4*
- • COMM 493 - Capstone: Social Justice Project *Units: 2*
- • COMM 495 - Journalism Practicum *Units: 2*
- • COMM 496 - Topics in Communication *Units: 4*
- • COMM 497 - Issues in Communication *Units: 4*

Communication: Graduate

- • COMM 600 - Introduction to Graduate Study *Units: 1*
- • COMM 601 - Theories in Communication *Units: 4*
- • COMM 602 - Critical Cultural Methods *Units: 4*
- • COMM 603 - Advanced Quantitative Research Methods *Units: 4*
- • COMM 604 - Advanced Qualitative Research Methods *Units: 4*

- • COMM 605 - Contemporary Rhetoric *Units: 4*
- • COMM 620 - Internship in Communication *Units: 1-4*
- • COMM 625 - Teaching Communication *Units: 4*
- • COMM 630 - Media Studies *Units: 4*
- • COMM 640 - Advanced Rhetorical Studies *Units: 4*
- • COMM 645 - Media and Globalization *Units: 4*
- • COMM 655 - Communication, Media, and Society *Units: 4*
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- • COMM 670 - Communication Campaigns *Units: 4*
- • COMM 675 - Digital Organizational Communication *Units: 4*
- • COMM 680 - Moral Economies of Digital Media *Units: 4*
- • COMM 685 - Future of Media and Society *Units: 4*
- • COMM 690 - Independent Study *Units: 1-4*
- • COMM 691 - University Thesis *Units: 1-6*
- • COMM 692 - Comprehensive Exams *Units: 2*
- • COMM 693 - Project *Units: 1-6*
- • COMM 696 - Topics in Communication *Units: 4*
- • COMM 697 - Issues In Communication *Units: 4*
- • COMM 698 - Internship *Units: 1-3*

Department of Computer Science

The Department Office is located on the 5th Floor of the Student and Faculty Support (SF) building, Room 570.

Hours Open: 8:00 a.m. to 5:00 p.m., Monday through Friday.

Dept. Phone: (510) 885-4300

Faculty

Professors

Kevin A. Brown, Ph.D. University of South Carolina

Leann Christianson, Ph.D. University of South Carolina

Levent Ertaul, Ph.D. University of Sussex (United Kingdom)

Lynne L. Grewe, Ph.D. Purdue University

C. Matthew Johnson (Chair), Ph.D. College of William and Mary

Associate Professors

Farzan Roohparvar, Ph.D. Iowa State University

David Yang, Ph.D. Columbia University

Assistant Professors

Zahra Derakhshandeh, Ph.D. Arizona State University

Varick Erickson, Ph.D. University of California, Merced

Xiaojun Ruan, Ph.D. Auburn University

Jiaofei Zhong, Ph.D. The University of Texas at Dallas

Graduate Coordinator: Kevin Brown

Department Statement

The Computer Science Department is a large and flourishing department, offering a variety of courses at a variety of times. The Department consists of diverse full-time faculty, with a wide range of backgrounds and interests. The Department offers over 25 undergraduate CS courses and over 25 graduate CS courses. The Department strives to provide a quality education to a diverse student community, and serves as one of the larger majors on campus.

About the Department

Use our university website link to learn more about what the Computer Science Department has to offer.

- Awards & Scholarships
- Resources
- PhD Graduate School Information
- Computer Science Professional Societies
- Advising & Student Services
- And more...

Bachelor

Computer Science, B.S.

Computer Science, B.S. Program (120 units)

Program Description

The Department of Computer Science offers study leading to a Bachelor of Science degree or minor in Computer Science. This program is designed to prepare students for employment in the technology sector or for advanced study in Computer Science. The curriculum provides a solid foundation of theoretical knowledge as well as experience with practical application in hardware and software.

Computer Science is the study of algorithms for addressing, processing, storing, and transmitting information. It encompasses a broad perspective that includes what constitutes a computer, computer uses and applications, and theoretical approaches to what can or can't be computed. The core curriculum in Computer Science, involving a blend of theory and practice, offers opportunities for problem solving in

many areas and provides experience with a variety of computer languages and software packages. A typical student's experience includes programming through software engineering, hardware through operating systems, and can include data solutions, web design, networking, mobile computing, artificial intelligence, hardware design, and graphic implementations ranging from interface design to computer vision. The breadth of subject material is important as many students can expect to have a number of different job classifications throughout their careers.

Students interested in the B.S. degree program in Computer Science should contact the Computer Science Department's Student Service Center and visit the department's webpage: <http://www.csueastbay.edu/cs/>

Program Learning Outcomes

Students graduating with a B.S. in Computer Science will be able to:

1. Apply knowledge of mathematics and computational theory to analyze problems in computer science, and identify and define the resources and requirements needed for their solution.
2. Design, implement, and evaluate a computer-based system, process, component, or program to meet desired needs.
3. Recognize and distinguish the mechanisms, components and architecture of computing systems.
4. Employ current techniques, skills, and tools necessary for computing practice, and recognize the need for continuing professional development.
5. Identify professional, ethical, legal, and security issues and responsibilities, and the impact of computing on individuals, organizations and society.
6. Perform successfully on teams to accomplish a common goal, and communicate computer science concepts effectively in written and oral form.

Career Opportunities

Software/Application Engineer • Game Designer • Network Systems Engineer • Web/Multimedia Developer • Mobile Developer • Systems Analyst • Network Security Administrator • Cloud Engineer • Systems Manager/Programmer • Network Administrator • Database Applications Programmer/Administrator • Big Data Analyst • Information Technology (IT) Administrator • Technical Writer • Teacher

Features

The University supports Computer Science with a variety of resources. Wireless access is available throughout the campus. Smart classrooms are equipped with a computer and projector, and there are multiple instructional laboratories equipped with 24-35 computers. Students may also use computers in open-access labs. Lab and classroom computers are equipped with a variety of operating systems and devices. The department's industry board provides insight for linking industrial practices with academia. The department has an active computing club, which hosts academic and social events, hackathons, and presentations from researchers and members of industry. Cal State East Bay's proximity to Silicon Valley provides opportunities for internships and employment in the high-tech companies in the area. The department is committed to a program rich in diversity, and encourages women, minorities, and international students to apply.

Admission

To apply for admission to the Bachelor of Science program in Computer Science, students must submit the proper forms, fees and transcripts to the university's Office of Admissions, which reviews each application. Information about the Computer Science major, Degree Roadmap, and answers to frequently asked questions are available on the department website.

High school students who are interested in Computer Science should take a minimum of Algebra, Trigonometry, and Pre-calculus, and a programming course if available. Community college students who are planning to transfer to Cal State East Bay should take Calculus I and II, Linear Algebra, Discrete Structures, Computer Organization and Assembly Language, and a two course sequence in a high level programming language.

Scholarships

Each year the department awards a number of scholarships covering a portion of the fees for the subsequent year. Scholarship applications may be filed during the spring semester.

Degree Requirements Unit-Outline

- The baccalaureate of science degree requires a total of 120 units:
 - The major requirements consists of 72 units;
 - General Education (GE) & Graduation Requirements (GR) consists of 57 units;
 - Free Electives may consist of 0 units (*actual number of free elective units may depend on GE/GR units*).

Note: It may be possible to double-count units within the graduation requirements or that a course may satisfy both a graduation requirement and a major requirement. Students should contact their program and AACE advisors for information.

Computer Science Major Requirements (72 units)

Note: Please see Errata page for corrections to course content within the Lower Division Coursework and Computer Science Breadth Coursework.

Lower Division Coursework

The following 31 units of foundation coursework are required. Students must complete all of these required courses with a grade of C- or above:

- CS 101 - Computer Science I Units: 4
- CS 201 - Computer Science II Units: 4
- CS 211 - Discrete Structures Units: 3
- CS 221 - Computer Organization and Assembly Language Units: 3
- CS 230 - Computing and Social Responsibility Units: 3 ; G.E./G.R. Area: D1-3
- MATH 130 - Calculus I Units: 4 ; G.E./G.R. Area: B4
- MATH 131 - Calculus II Units: 3
- MATH 225 - Numerical Algorithms and Linear Algebra for Computer Science Units: 3
- PHYS 135 - Physics for Scientists and Engineers I Units: 4 ; G.E./G.R. Area: B1, B3

Upper Division Coursework

Students must complete all 29 units of upper-division courses with a grade of C- or above:

- CS 301 - Data Structures and Algorithms *Units: 4*
- CS 311 - Programming Language Concepts *Units: 3*
- CS 321 - Computer Architecture *Units: 3*
- CS 401 - Software Engineering *Units: 4*
- CS 411 - Automata and Computation *Units: 3*
- CS 413 - Analysis of Algorithms *Units: 3*
- CS 421 - Operating Systems *Units: 3*
- CS 441 - Computer Networks *Units: 3*
- STAT 316 - Statistics and Probability for Science and Engineering *Units: 3*

Computer Science Breadth Coursework

Note: Please see Errata page for corrections to this course content.

Students must complete two (2) courses of the following for 6 units:

- CS 351 - Website Development *Units: 3*
- CS 431 - Database Architecture *Units: 3*
- CS 453 - Mobile Programming *Units: 3*
- CS 455 - Computer Graphics *Units: 3*
- CS 461 - Artificial Intelligence *Units: 3*
- CS 471 - Security and Information Assurance *Units: 3*

Elective Courses

Students must take two (2) courses with the CS prefix numbered 300 or above for a minimum of 6 units. Courses must not be the same as those already used. *Note: 1-3 units of CS 498 Cooperative Education and/or 1-3 units of CS 490 Independent Study may be used to fulfill the Electives category.*

Other Undergraduate Degree Requirements

In addition to major requirements, every student must also complete the University's baccalaureate requirements for graduation, which are described in the Requirements, Exams & Testing chapter of this catalog.

Department Courses Listed by Course Type

Computer Science Courses

Department of Computer Science

Go to information for this department.

Courses

Computer Science

- CS 100 - Programming for Everyone *Units: 3*
- CS 101 - Computer Science I *Units: 4*
- CS 180 - Computers in Action *Units: 3*
- CS 200 - Advanced Programming for Everyone *Units: 3*
- CS 201 - Computer Science II *Units: 4*
- CS 211 - Discrete Structures *Units: 3*
- CS 221 - Computer Organization and Assembly Language *Units: 3*
- CS 230 - Computing and Social Responsibility *Units: 3 ; G.E./G.R. Area: D1-3*
- CS 250 - Introduction to Web Programming *Units: 3*
- CS 300 - Discovering Computer Science *Units: 3*
- CS 301 - Data Structures and Algorithms *Units: 4*
- CS 311 - Programming Language Concepts *Units: 3*
- CS 321 - Computer Architecture *Units: 3*
- CS 350 - Databases for Social and Health Sciences *Units: 3*
- CS 351 - Website Development *Units: 3*
- CS 400 - Computer Programming for Science *Units: 3*
- CS 401 - Software Engineering *Units: 4*
- CS 411 - Automata and Computation *Units: 3*
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- CS 453 - Mobile Programming *Units: 3*
- CS 455 - Computer Graphics *Units: 3*
- CS 461 - Artificial Intelligence *Units: 3*
- CS 471 - Security and Information Assurance *Units: 3*
- CS 490 - Independent Study *Units: 1-4*
- CS 497 - Topics in Computer Science *Units: 3*
- CS 498 - Internship *Units: 1-3*

Computer Science: Graduate

- CS 601 - Advanced Algorithms *Units: 3*
- CS 603 - Advanced Software Engineering *Units: 3*
- CS 605 - Information Coding and Cryptography *Units: 3*
- CS 607 - Parallel Programming *Units: 3*
- CS 611 - Theory of Computation *Units: 3*
- CS 615 - Compiler Design *Units: 3*
- CS 621 - Operating Systems Design *Units: 3*
- CS 623 - Cloud Computing *Units: 3*
- CS 625 - Advanced Computer Architecture *Units: 3*
- CS 631 - Database Systems *Units: 3*
- CS 641 - Advanced Computer Networks *Units: 3*
- CS 643 - Distributed Systems *Units: 3*
- CS 645 - Network Analysis and Design *Units: 3*
- CS 651 - Web Systems *Units: 3*
- CS 661 - Advanced Artificial Intelligence *Units: 3*
- CS 663 - Computer Vision *Units: 3*

- CS 665 - Human-Computer Interaction *Units: 3*
- CS 667 - Machine Learning *Units: 4*
- CS 671 - Cybersecurity *Units: 3*
- CS 681 - Digital Signal Processing *Units: 3*
- CS 683 - Computer Simulation *Units: 3*
- CS 690 - Independent Study *Units: 3*
- CS 692 - Capstone Examinations *Units: 3*
- CS 693 - Capstone Project *Units: 1-4*
- CS 697A - Topics in Computer Science *Units: 3*
- CS 697B - Topics in Computer Networks *Units: 3*
- CS 699 - Capstone Thesis *Units: 1-6*

Master

Computer Science, M.S.: Computer Networks Concentration

Computer Science, M.S. Program

Program Description

The Department of Computer Science offers graduate study leading to the degree of Master of Science in Computer Science. This program is designed to extend the student's knowledge in a broad manner beyond the baccalaureate degree major in Computer Science. It will both (1) deepen general understanding of theoretical principles and (2) provide exposure to important applications of Computer Science such as security, software engineering, database, networking, and others. This approach is especially important in Computer Science, where training in specific languages and systems and on specific machines is transitory, as these languages, systems, and machines evolve. In contrast, many of the principles will last, and generally apply to a wide variety of specializations within the field. The breadth of subject material is important as many students will have a number of different job classifications in their working lives.

Students pursuing the Master of Science in Computer Science choose from one of two concentrations, Computer Science or Computer Networks. The Computer Science concentration provides significant flexibility allowing the student to direct their studies towards the special interest area they find most compelling. The Computer Networks concentration provides the opportunity to focus on topics in Computer Networking.

Our program features small classes that allow for close contact between students and faculty. Many graduate classes are offered in the late afternoon or early evening, making it possible for working students to attend. Some courses toward the M.S. degree may also be taken during the summer session.

Students interested in the M.S. degree program in Computer Science should contact the Computer Science Graduate Coordinator.

Program Learning Outcomes

Students graduating with an M.S. in Computer Science will be able to:

1. Apply knowledge of mathematics and computational theory to analyze problems in computer science, and assess and determine the resources and requirements needed for their solution.

2. Design, develop, and evaluate a computer-based system, process, component, or program to meet desired needs.
3. Classify and explain the mechanisms, components and architecture of computing systems.
4. Employ current techniques, skills, and tools necessary for computing practice, and justify the need for continuing professional development.
5. Discuss professional, ethical, legal, and security issues and responsibilities, and the impact of computing on individuals, organizations and society.
6. Function successfully on teams to accomplish a common goal, and explain computer science concepts effectively in written and oral form.

Career Opportunities

Software/Application Designer • Systems Manager/Programmer • Network Programmer/Administrator • Technical Administrator • Teacher/Professor Engineer • Network Analyst • Network Security Administrator • Database Administrator • Teacher/Professor Engineer • Web/Multimedia Administrator • Cloud Administrator • Database Administrator • Information Technology (IT) Developer • Game Engineer • Systems Applications

Features

The university provides multiple PC labs available on campus as well as wireless network access. Cal State has several active Computing Clubs, which host presentations from members of industry, as well as hackathons, academic and social events, and are involved with a number of ongoing projects. Our proximity to Silicon Valley provides opportunities for internships and employment in the high-tech companies in the area. The department is committed to a program rich in diversity, and encourages women, minorities, and international students to apply.

Scholarships

Each year the department awards a number of scholarships covering a portion of the fees for the subsequent year. Scholarship applications may be filed during the spring semester.

Admission

To apply for admission to the Master of Science program in Computer Science, a student must submit the proper forms, fees and transcripts to the university's Office of Admissions, which initially reviews each application. Each applicant must also submit their scores on the General Test of the Graduate Record Examination (GRE) directly to the university. After the Office of Admissions has completed their review, applications are forwarded to the Computer Science department which makes the decision whether to accept or reject the applicant.

A student wishing to enter the M.S. in Computer Science program must normally have an undergraduate degree in Computer Science or in a related field, must have a grade point average of 3.0 in all undergraduate work, and must have earned a "B" or better in the Computer Science and Mathematics courses listed below.

Computer Science Admission Requirements

Four lower-division Computer Science courses equivalent to the following CSU East Bay courses:

- CS 101 Computer Science I
- CS 201 Computer Science II
- CS 211 Mathematical Foundations of Computer Science
- CS 221 Computer Organization and Assembly Programming

Six upper division Computer Science courses equivalent to the following CSU East Bay courses:

- CS 301 Data Structures and Algorithms
- CS 311 Programming Language Concepts
- CS 321 Computer Architecture
- CS 411 Automata and Computation
- CS 413 Analysis of Algorithms
- CS 421 Operating Systems

Mathematics Requirements for Admission

- MATH 130 Calculus I
- MATH 131 Calculus II
- MATH 225 Numerical Algorithms and Linear Algebra for Computer Science
- STAT 316 Statistics and Probability for Science and Engineering I

A student who has not completed all of the course admission requirements may be admitted to the program at the discretion of the department as a "Conditionally Classified Graduate" student, provided the student's record clearly demonstrates the capability of completing all the course requirements after admission. Students must complete any course deficiencies or remediation with grades of "B" or better. Course deficiencies or remediation must be completed before enrolling in graduate Computer Science courses. Note that courses used to make up deficiencies for admission may not be applied toward the master's degree.

Student Standing and Progress Towards the Degree

There are three categories of student status which reflect student progress towards the degree: "Conditionally Classified Graduate", "Classified Graduate", and "Advancement to Candidacy."

- Students are granted "Conditionally Classified Graduate" status when they have been admitted to the M.S. in Computer Science program, but have not yet completed all the requirements for "Classified Graduate" status.
- Students with "Conditionally Classified Graduate" status, no course deficiencies or remediation, and who have satisfied the University Writing Skills Requirement (UWSR) should petition the graduate coordinator for "Classified Graduate" status. Note that satisfaction of the University Writing Skills Requirement must begin during the first semester of admission to the program.
- Students with "Classified Graduate" status may apply for "Advancement to Candidacy" status after completing the five M.S. required courses with a "B" or better average. In addition, a student must have an overall and graduate GPA of 3.0 or better. Before Advancement to Candidacy, a student's complete course of study must be approved by the Computer Science Graduate Coordinator.

Cause for Dismissal from Program

Students may be dismissed from the program at any time "for cause." "For cause" includes, but is not limited to, poor academic performance, violation of the student code of conduct, academic dishonesty, or interference with the educational environment. Students whose GPA falls below 3.0 for two or more

consecutive semesters will be academically disqualified from the university. Students with two or more filed academic dishonesty reports will be referred to the Office of Graduate Studies with a recommendation that they be declassified from the program. See Academic Dishonesty Policies in the Student Rights, Responsibilities & Conduct chapter for further information.

Computer Science Degree Requirements (30-33 units)

The following departmental requirements are in addition to the university requirements.

Required Courses

The following 15 units are required for the degree:

- CS 601 - Advanced Algorithms *Units: 3*
- CS 611 - Theory of Computation *Units: 3*
- CS 621 - Operating Systems Design *Units: 3*
- CS 651 - Web Systems *Units: 3*
- CS 671 - Cybersecurity *Units: 3*

Concentrations

Students must select one (1) of the following concentrations, for 12 units, to fulfill the degree requirements:

- Computer Science, M.S.: Computer Science Concentration
- Computer Science, M.S.: Computer Networks Concentration

Capstone Requirements

A student must select and satisfy 3 units from one (1) of the following capstone requirements. A student must have "Advanced to Candidacy" status, a GPA of 3.0 or greater, and department permission in order to enroll in any of the capstone options.

Students who complete a thesis or project must complete a minimum of 3 units and have an advisor who agrees to oversee the work, and must have the proposed topic approved by the Computer Science Graduate Studies Committee.

- CS 692 - Capstone Examinations *Units: 3*
- CS 693 - Capstone Project *Units: 1-4*
- CS 699 - Capstone Thesis *Units: 1-6*

Computer Networks Concentration

The following 12 units are required for the concentration as outlined below:

- CS 641 - Advanced Computer Networks *Units: 3*

Plus, choose three (3) courses from the following:

- CS 623 - Cloud Computing *Units: 3*
- CS 643 - Distributed Systems *Units: 3*
- CS 645 - Network Analysis and Design *Units: 3*
- CS 697B - Topics in Computer Networks *Units: 3*

Other Graduate & Post-Baccalaureate Degree Requirements

In addition to departmental requirements, every student must also satisfy the University requirements for graduation as described throughout this catalog. These include the 70% unit residence requirement; the five-year rule on currency of subject matter; the minimum number of units in 600-level courses; the "C" minimum grade for each graduate course; the 3.00 cumulative grade point average; and the University Writing Skills Requirement.

Note: For information on meeting the University Writing Skills Requirement, see the Testing Office website at www.csueastbay.edu/testing or call (510) 885-3661.

Department Courses Listed by Course Type

Computer Science Courses

Department of Computer Science

Go to information for this department.

Courses

Computer Science

- CS 100 - Programming for Everyone *Units: 3*
- CS 101 - Computer Science I *Units: 4*
- CS 180 - Computers in Action *Units: 3*
- CS 200 - Advanced Programming for Everyone *Units: 3*
- CS 201 - Computer Science II *Units: 4*
- CS 211 - Discrete Structures *Units: 3*
- CS 221 - Computer Organization and Assembly Language *Units: 3*
- CS 230 - Computing and Social Responsibility *Units: 3 ; G.E./G.R. Area: D1-3*
- CS 250 - Introduction to Web Programming *Units: 3*
- CS 300 - Discovering Computer Science *Units: 3*
- CS 301 - Data Structures and Algorithms *Units: 4*
- CS 311 - Programming Language Concepts *Units: 3*
- CS 321 - Computer Architecture *Units: 3*
- CS 350 - Databases for Social and Health Sciences *Units: 3*
- CS 351 - Website Development *Units: 3*
- CS 400 - Computer Programming for Science *Units: 3*
- CS 401 - Software Engineering *Units: 4*
- CS 411 - Automata and Computation *Units: 3*
- CS 413 - Analysis of Algorithms *Units: 3*
- CS 421 - Operating Systems *Units: 3*
- CS 431 - Database Architecture *Units: 3*

- CS 441 - Computer Networks *Units: 3*
- CS 453 - Mobile Programming *Units: 3*
- CS 455 - Computer Graphics *Units: 3*
- CS 461 - Artificial Intelligence *Units: 3*
- CS 471 - Security and Information Assurance *Units: 3*
- CS 490 - Independent Study *Units: 1-4*
- CS 497 - Topics in Computer Science *Units: 3*
- CS 498 - Internship *Units: 1-3*

Computer Science: Graduate

- CS 601 - Advanced Algorithms *Units: 3*
- CS 603 - Advanced Software Engineering *Units: 3*
- CS 605 - Information Coding and Cryptography *Units: 3*
- CS 607 - Parallel Programming *Units: 3*
- CS 611 - Theory of Computation *Units: 3*
- CS 615 - Compiler Design *Units: 3*
- CS 621 - Operating Systems Design *Units: 3*
- CS 623 - Cloud Computing *Units: 3*
- CS 625 - Advanced Computer Architecture *Units: 3*
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- CS 665 - Human-Computer Interaction *Units: 3*
- CS 667 - Machine Learning *Units: 4*
- CS 671 - Cybersecurity *Units: 3*
- CS 681 - Digital Signal Processing *Units: 3*
- CS 683 - Computer Simulation *Units: 3*
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- CS 699 - Capstone Thesis *Units: 1-6*

Computer Science, M.S.: Computer Science Concentration

Computer Science, M.S. Program

Program Description

The Department of Computer Science offers graduate study leading to the degree of Master of Science in Computer Science. This program is designed to extend the student's knowledge in a broad manner beyond the baccalaureate degree major in Computer Science. It will both (1) deepen general understanding of theoretical principles and (2) provide exposure to important applications of Computer Science such as security, software engineering, database, networking, and others. This approach is especially important in Computer Science, where training in specific languages and systems and on specific machines is

transitory, as these languages, systems, and machines evolve. In contrast, many of the principles will last, and generally apply to a wide variety of specializations within the field. The breadth of subject material is important as many students will have a number of different job classifications in their working lives.

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Our program features small classes that allow for close contact between students and faculty. Many graduate classes are offered in the late afternoon or early evening, making it possible for working students to attend. Some courses toward the M.S. degree may also be taken during the summer session.

Students interested in the M.S. degree program in Computer Science should contact the Computer Science Graduate Coordinator.

Program Learning Outcomes

Students graduating with an M.S. in Computer Science will be able to:

1. Apply knowledge of mathematics and computational theory to analyze problems in computer science, and assess and determine the resources and requirements needed for their solution.
2. Design, develop, and evaluate a computer-based system, process, component, or program to meet desired needs.
3. Classify and explain the mechanisms, components and architecture of computing systems.
4. Employ current techniques, skills, and tools necessary for computing practice, and justify the need for continuing professional development.
5. Discuss professional, ethical, legal, and security issues and responsibilities, and the impact of computing on individuals, organizations and society.
6. Function successfully on teams to accomplish a common goal, and explain computer science concepts effectively in written and oral form.

Career Opportunities

Software/Application Designer • Systems Manager/Programmer • Network Programmer/Administrator • Technical Administrator • Teacher/Professor	Engineer • Network Analyst • Network Security Administrator • Database Writer • Big Data Analyst • Information Technology (IT)	Engineer • Web/Multimedia Administrator • Cloud Applications	Developer • Game Engineer • Systems Technology (IT)

Features

The university provides multiple PC labs available on campus as well as wireless network access. Cal State has several active Computing Clubs, which host presentations from members of industry, as well as hackathons, academic and social events, and are involved with a number of ongoing projects. Our proximity to Silicon Valley provides opportunities for internships and employment in the high-tech companies in the area. The department is committed to a program rich in diversity, and encourages women, minorities, and international students to apply.

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To apply for admission to the Master of Science program in Computer Science, a student must submit the proper forms, fees and transcripts to the university's Office of Admissions, which initially reviews each application. Each applicant must also submit their scores on the General Test of the Graduate Record Examination (GRE) directly to the university. After the Office of Admissions has completed their review, applications are forwarded to the Computer Science department which makes the decision whether to accept or reject the applicant.

A student wishing to enter the M.S. in Computer Science program must normally have an undergraduate degree in Computer Science or in a related field, must have a grade point average of 3.0 in all undergraduate work, and must have earned a "B" or better in the Computer Science and Mathematics courses listed below.

Computer Science Admission Requirements

Four lower-division Computer Science courses equivalent to the following CSU East Bay courses:

- CS 101 Computer Science I
- CS 201 Computer Science II
- CS 211 Mathematical Foundations of Computer Science
- CS 221 Computer Organization and Assembly Programming

Six upper division Computer Science courses equivalent to the following CSU East Bay courses:

- CS 301 Data Structures and Algorithms
- CS 311 Programming Language Concepts
- CS 321 Computer Architecture
- CS 411 Automata and Computation
- CS 413 Analysis of Algorithms
- CS 421 Operating Systems

Mathematics Requirements for Admission

- MATH 130 Calculus I
- MATH 131 Calculus II
- MATH 225 Numerical Algorithms and Linear Algebra for Computer Science
- STAT 316 Statistics and Probability for Science and Engineering I

A student who has not completed all of the course admission requirements may be admitted to the program at the discretion of the department as a "Conditionally Classified Graduate" student, provided the student's record clearly demonstrates the capability of completing all the course requirements after admission. Students must complete any course deficiencies or remediation with grades of "B" or better. Course deficiencies or remediation must be completed before enrolling in graduate Computer Science

courses. Note that courses used to make up deficiencies for admission may not be applied toward the master's degree.

Student Standing and Progress Towards the Degree

There are three categories of student status which reflect student progress towards the degree: "Conditionally Classified Graduate", "Classified Graduate", and "Advancement to Candidacy."

- Students are granted "Conditionally Classified Graduate" status when they have been admitted to the M.S. in Computer Science program, but have not yet completed all the requirements for "Classified Graduate" status.
- Students with "Conditionally Classified Graduate" status, no course deficiencies or remediation, and who have satisfied the University Writing Skills Requirement (UWSR) should petition the graduate coordinator for "Classified Graduate" status. Note that satisfaction of the University Writing Skills Requirement must begin during the first semester of admission to the program.
- Students with "Classified Graduate" status may apply for "Advancement to Candidacy" status after completing the five M.S. required courses with a "B" or better average. In addition, a student must have an overall and graduate GPA of 3.0 or better. Before Advancement to Candidacy, a student's complete course of study must be approved by the Computer Science Graduate Coordinator.

Cause for Dismissal from Program

Students may be dismissed from the program at any time "for cause." "For cause" includes, but is not limited to, poor academic performance, violation of the student code of conduct, academic dishonesty, or interference with the educational environment. Students whose GPA falls below 3.0 for two or more consecutive semesters will be academically disqualified from the university. Students with two or more filed academic dishonesty reports will be referred to the Office of Graduate Studies with a recommendation that they be declassified from the program. See Academic Dishonesty Policies in the Student Rights, Responsibilities & Conduct chapter for further information.

Computer Science Degree Requirements (30-33 units)

The following departmental requirements are in addition to the university requirements.

Required Courses

The following 15 units are required for the degree:

- CS 601 - Advanced Algorithms *Units: 3*
- CS 611 - Theory of Computation *Units: 3*
- CS 621 - Operating Systems Design *Units: 3*
- CS 651 - Web Systems *Units: 3*
- CS 671 - Cybersecurity *Units: 3*

Concentrations

Students must select one (1) of the following concentrations, for 12 units, to fulfill the degree requirements:

- Computer Science, M.S.: Computer Science Concentration
- Computer Science, M.S.: Computer Networks Concentration

Capstone Requirements

A student must select and satisfy 3 units from one (1) of the following capstone requirements. A student must have "Advanced to Candidacy" status, a GPA of 3.0 or greater, and department permission in order to enroll in any of the capstone options.

Students who complete a thesis or project must complete a minimum of 3 units and have an advisor who agrees to oversee the work, and must have the proposed topic approved by the Computer Science Graduate Studies Committee.

- CS 692 - Capstone Examinations *Units: 3*
- CS 693 - Capstone Project *Units: 1-4*
- CS 699 - Capstone Thesis *Units: 1-6*

Computer Science Concentration

Students who have chosen the Computer Science concentration are to select any four (4) courses for 12 units from the 600-level Computer Science course list not including any of the required courses or capstone courses listed above.

Other Graduate & Post-Baccalaureate Degree Requirements

In addition to departmental requirements, every student must also satisfy the University requirements for graduation as described throughout this catalog. These include the 70% unit residence requirement; the five-year rule on currency of subject matter; the minimum number of units in 600-level courses; the "C" minimum grade for each graduate course; the 3.00 cumulative grade point average; and the University Writing Skills Requirement.

Note: For information on meeting the University Writing Skills Requirement, see the Testing Office website at www.csueastbay.edu/testing or call (510) 885-3661.

Department Courses Listed by Course Type

Computer Science Courses

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Courses

Computer Science

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- CS 101 - Computer Science I *Units: 4*

- • CS 180 - Computers in Action *Units: 3*
- • CS 200 - Advanced Programming for Everyone *Units: 3*
- • CS 201 - Computer Science II *Units: 4*
- • CS 211 - Discrete Structures *Units: 3*
- • CS 221 - Computer Organization and Assembly Language *Units: 3*
- • CS 230 - Computing and Social Responsibility *Units: 3 ; G.E./G.R. Area: D1-3*
- • CS 250 - Introduction to Web Programming *Units: 3*
- • CS 300 - Discovering Computer Science *Units: 3*
- • CS 301 - Data Structures and Algorithms *Units: 4*
- • CS 311 - Programming Language Concepts *Units: 3*
- • CS 321 - Computer Architecture *Units: 3*
- • CS 350 - Databases for Social and Health Sciences *Units: 3*
- • CS 351 - Website Development *Units: 3*
- • CS 400 - Computer Programming for Science *Units: 3*
- • CS 401 - Software Engineering *Units: 4*
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- • CS 461 - Artificial Intelligence *Units: 3*
- • CS 471 - Security and Information Assurance *Units: 3*
- • CS 490 - Independent Study *Units: 1-4*
- • CS 497 - Topics in Computer Science *Units: 3*
- • CS 498 - Internship *Units: 1-3*

Computer Science: Graduate

- • CS 601 - Advanced Algorithms *Units: 3*
- • CS 603 - Advanced Software Engineering *Units: 3*
- • CS 605 - Information Coding and Cryptography *Units: 3*
- • CS 607 - Parallel Programming *Units: 3*
- • CS 611 - Theory of Computation *Units: 3*
- • CS 615 - Compiler Design *Units: 3*
- • CS 621 - Operating Systems Design *Units: 3*
- • CS 623 - Cloud Computing *Units: 3*
- • CS 625 - Advanced Computer Architecture *Units: 3*
- • CS 631 - Database Systems *Units: 3*
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- • CS 643 - Distributed Systems *Units: 3*
- • CS 645 - Network Analysis and Design *Units: 3*
- • CS 651 - Web Systems *Units: 3*
- • CS 661 - Advanced Artificial Intelligence *Units: 3*
- • CS 663 - Computer Vision *Units: 3*
- • CS 665 - Human-Computer Interaction *Units: 3*
- • CS 667 - Machine Learning *Units: 4*
- • CS 671 - Cybersecurity *Units: 3*
- • CS 681 - Digital Signal Processing *Units: 3*
- • CS 683 - Computer Simulation *Units: 3*
- • CS 690 - Independent Study *Units: 3*

- CS 692 - Capstone Examinations *Units: 3*
- CS 693 - Capstone Project *Units: 1-4*
- CS 697A - Topics in Computer Science *Units: 3*
- CS 697B - Topics in Computer Networks *Units: 3*
- CS 699 - Capstone Thesis *Units: 1-6*

Minor

Computer Science Minor

Minor Requirements (21 units)

Lower Division Computer Science

Take the following 11 units:

- CS 101 - Computer Science I *Units: 4*
- CS 201 - Computer Science II *Units: 4*
- CS 211 - Discrete Structures *Units: 3*

Note: CS 100 may be substituted for CS 101 with departmental approval.

Upper Division Computer Science

Take the following 4 units:

- CS 301 - Data Structures and Algorithms *Units: 4*

Computer Science Minor Electives

Students must take two (2) additional courses with the CS prefix numbered 300 and above for a minimum of 6 units. Courses may NOT be the same as those already required in the minor.

Department Courses Listed by Course Type

Computer Science Courses

Department of Computer Science

Go to information for this department.

Courses

Computer Science

- CS 100 - Programming for Everyone *Units: 3*
- CS 101 - Computer Science I *Units: 4*
- CS 180 - Computers in Action *Units: 3*

- • CS 200 - Advanced Programming for Everyone *Units: 3*
- • CS 201 - Computer Science II *Units: 4*
- • CS 211 - Discrete Structures *Units: 3*
- • CS 221 - Computer Organization and Assembly Language *Units: 3*
- • CS 230 - Computing and Social Responsibility *Units: 3 ; G.E./G.R. Area: D1-3*
- • CS 250 - Introduction to Web Programming *Units: 3*
- • CS 300 - Discovering Computer Science *Units: 3*
- • CS 301 - Data Structures and Algorithms *Units: 4*
- • CS 311 - Programming Language Concepts *Units: 3*
- • CS 321 - Computer Architecture *Units: 3*
- • CS 350 - Databases for Social and Health Sciences *Units: 3*
- • CS 351 - Website Development *Units: 3*
- • CS 400 - Computer Programming for Science *Units: 3*
- • CS 401 - Software Engineering *Units: 4*
- • CS 411 - Automata and Computation *Units: 3*
- • CS 413 - Analysis of Algorithms *Units: 3*
- • CS 421 - Operating Systems *Units: 3*
- • CS 431 - Database Architecture *Units: 3*
- • CS 441 - Computer Networks *Units: 3*
- • CS 453 - Mobile Programming *Units: 3*
- • CS 455 - Computer Graphics *Units: 3*
- • CS 461 - Artificial Intelligence *Units: 3*
- • CS 471 - Security and Information Assurance *Units: 3*
- • CS 490 - Independent Study *Units: 1-4*
- • CS 497 - Topics in Computer Science *Units: 3*
- • CS 498 - Internship *Units: 1-3*

Computer Science: Graduate

- • CS 601 - Advanced Algorithms *Units: 3*
- • CS 603 - Advanced Software Engineering *Units: 3*
- • CS 605 - Information Coding and Cryptography *Units: 3*
- • CS 607 - Parallel Programming *Units: 3*
- • CS 611 - Theory of Computation *Units: 3*
- • CS 615 - Compiler Design *Units: 3*
- • CS 621 - Operating Systems Design *Units: 3*
- • CS 623 - Cloud Computing *Units: 3*
- • CS 625 - Advanced Computer Architecture *Units: 3*
- • CS 631 - Database Systems *Units: 3*
- • CS 641 - Advanced Computer Networks *Units: 3*
- • CS 643 - Distributed Systems *Units: 3*
- • CS 645 - Network Analysis and Design *Units: 3*
- • CS 651 - Web Systems *Units: 3*
- • CS 661 - Advanced Artificial Intelligence *Units: 3*
- • CS 663 - Computer Vision *Units: 3*
- • CS 665 - Human-Computer Interaction *Units: 3*
- • CS 667 - Machine Learning *Units: 4*
- • CS 671 - Cybersecurity *Units: 3*
- • CS 681 - Digital Signal Processing *Units: 3*
- • CS 683 - Computer Simulation *Units: 3*
- • CS 690 - Independent Study *Units: 3*
- • CS 692 - Capstone Examinations *Units: 3*

- CS 693 - Capstone Project *Units: 1-4*
- CS 697A - Topics in Computer Science *Units: 3*
- CS 697B - Topics in Computer Networks *Units: 3*
- CS 699 - Capstone Thesis *Units: 1-6*

Department of Criminal Justice

The department office is located on the 4th Floor, in the Student and Faculty Services (SF) building, Room 402.

The department is open during regular business hours: 8:00 a.m. - 5:00 p.m., Monday thru Friday

Dept. Phone: (510) 885-3590

Faculty

Professors

Silvina Ituarte, Ph.D. Rutgers University

Dawna Komorosky (Chair), Ph.D. Indiana University of Pennsylvania

Associate Professors

Keith Inman, M.Crim. University of California, Berkeley

Assistant Professors

Summer Jackson, Ph.D. University of Oklahoma

Cory Lepage, Ph.D. University of California, Riverside

Sanjay Marwah, Ph.D. George Mason University

Amanda Matravers, Ph.D. University of Cambridge (United Kingdom)

Michelle Rippy, MFS National University

Department Statement

The Department of Criminal Justice, established in 1976, offers an undergraduate program leading to a degree of Bachelor of Science, as well as a minor, in Criminal Justice. The undergraduate program is designed for the academic development of knowledge and understanding of practices, theories, and concepts of justice administration, as well as to prepare students for professional careers in justice administration, law enforcement, corrections, and graduate studies.

About the Department

Use our university website link to learn more about what the Criminal Justice Department has to offer.

- Degree Roadmap
- Advising
- Alumni
- Faculty Profiles
- Department News
- And more...

Bachelor

Criminal Justice, B.S.

Criminal Justice, B.S. Program (120 units)

Program Description

The Department of Criminal Justice offers an undergraduate degree designed for the development of knowledge and understanding of practices, criminological theory, and concepts of the criminal justice system. Through the examination of crime prevention, forensic science and investigation, corrections and community-based programs, equity and diversity, and impact of victimization students will be provided with a general understanding of the issues facing the criminal and juvenile justice systems. This major will prepare students to be leaders for positive change in the community along with careers in law enforcement, corrections, victim advocacy, law, and community-based programs.

Many local, state, federal and private agencies employ Cal State East Bay criminal justice graduates. Senior majors may qualify for internship placement in criminal justice agencies throughout the Bay Area.

Local level agencies include municipal police departments, county sheriffs' offices, probation departments, halfway and pre-release houses, group homes, crisis centers, juvenile halls, welfare fraud units, computer crime analysis, and retail and industrial security agencies. State level agencies include: the Highway Patrol, California Department of Corrections and Rehabilitation, Department of Motor Vehicles, and Departments of Justice, Fish and Game, and Forestry. Federal level agencies include the Border Patrol; F.B.I.; Secret Service; Bureau of Alcohol, Tobacco and Firearms; Internal Revenue Service; National Park Service; Customs; Postal Inspection Service; and Federal Prisons.

Career Opportunities

Family Violence, Crisis, or Shelter Counselor • Community Agency Counselor • Community Service Coordinator • Consumer Affairs Director • Probation, Parole, and Corrections Officer • Deputy Insurance Commissioner • Equal Opportunity Representative • ATF, CIA FBI Agent • Group Worker • Insurance Investigator • Investigator • Loss Prevention Specialist • Park Ranger • Police Administrator • Police Officer • Security Manager • Social Worker • Vocational Rehabilitation Officer

Program Learning Outcomes

Students graduating with a B.S. in Criminal Justice from Cal State East Bay will be able to:

- Analyze and discuss issues of crime and justice from different perspectives that reflect critical and independent thinking;

- Communicate, present, and discuss ideas and issues in one-on-one or group settings (Oral Communication), and write effectively, following appropriate writing styles as commonly practiced in the social sciences;
- Apply knowledge of diversity and multicultural competencies to criminal justice strategies that will promote equity and social justice in every community;
- Work collaboratively and respectfully as members and leaders of diverse teams and communities;
- Demonstrate an understanding of how the ethical and responsible application of criminal justice regulates human conduct and sustains stability in society; and
- Apply appropriate knowledge and skills necessary for a vital career in criminal justice and related professions.

Degree Requirements Unit-Outline

- A baccalaureate of science degree requires a total of 120 units:
 - The major requirements consists of 48 units;
 - General Education (GE) & Graduation Requirements (GR) consists of 57 units;
 - Free Electives may consist of 15 units (actual number of free elective units may depend on GE/GR units).
- Note: It may be possible to double-count units within the graduation requirements or that a course may satisfy both a graduation requirement and a major requirement. Students should contact their program and AACE advisors for information.*

Criminal Justice Major Requirements (48 units)

Note: Credit/No Credit (CR/NC) grading is NOT permitted for classes used to meet the major requirements. A grade of C (2.0) or higher is required for all courses to be counted toward the major.

Lower Division Core

The following 18 units are required:

- CRJ 101 - Introduction to Criminal Justice *Units: 3*
- CRJ 210 - Elementary Criminal Law *Units: 3*
- CRJ 220 - Basic Criminal Investigation *Units: 3*
- CRJ 230 - Police Community Relations *Units: 3*
- SOC 100 - Introduction to Sociology *Units: 3 ; G.E./G.R. Area: D1-3*
- STAT 100 - Elements of Statistics and Probability *Units: 3 ; G.E./G.R. Area: B4*

Upper Division Coursework

The following four (4) upper-division core courses for 12 units are required:

- CRJ 320 - Research Methods in Criminal Justice *Units: 3*
- CRJ 370 - Ethics and Criminal Justice Administration *Units: 3*
- CRJ 460 - Crime Theory *Units: 3*
- CRJ 480 - Criminal Law and Courts *Units: 3*

- *Plus, select one (1) course from each of the following groups for 12 units*

Crime Prevention, Policing, & Forensics Courses

- CRJ 330 - Crime Prevention and Control *Units: 3*
- CRJ 340 - Advanced Criminal Investigation *Units: 3*
- CRJ 350 - Criminal Identification *Units: 3*
- CRJ 380 - Survey of Forensic Science *Units: 3*
- CRJ 410 - Advanced Policing Innovations *Units: 3*

Corrections, Community Based Programs, and Youth

- CRJ 310 - Corrections and Criminal Justice *Units: 3*
- CRJ 455 - Youth Crime and Empowerment *Units: 3*
- CRJ 470 - Community Based Corrections *Units: 3*
- CRJ 475 - Restorative Justice *Units: 3*

Impact of Crime & Victimization

- CRJ 345 - Animal Cruelty and the Criminal Justice System *Units: 3*
- CRJ 375 - Family Violence and the Criminal Justice System *Units: 3*
- CRJ 430 - Victimology & Crime Victims *Units: 3*

Justice, Equity, Diversity

- CRJ 435 - Prejudice, Violence, and Hate Crimes *Units: 3*
- CRJ 450 - Women in Criminal Justice *Units: 3*
- CRJ 465 - Drugs, Law, and Society: Race, Gender, and U.S. Drug Policy
Units: 3

Elective Courses

Select two (2) courses from the following for a total of 6 units:

- CRJ 300 - Crime and Criminal Justice in the Media and Cinema *Units: 3*
- CRJ 310 - Corrections and Criminal Justice *Units: 3*
- CRJ 330 - Crime Prevention and Control *Units: 3*
- CRJ 340 - Advanced Criminal Investigation *Units: 3*
- CRJ 345 - Animal Cruelty and the Criminal Justice System *Units: 3*
- CRJ 350 - Criminal Identification *Units: 3*
- CRJ 360 - Police Organization and Management *Units: 3*
- CRJ 375 - Family Violence and the Criminal Justice System *Units: 3*
- CRJ 380 - Survey of Forensic Science *Units: 3*
- CRJ 400 - Sex Crime Investigation *Units: 3*
- CRJ 410 - Advanced Policing Innovations *Units: 3*
- CRJ 415 - Internship in Criminal Justice *Units: 3*
- CRJ 420 - White Collar Crime *Units: 3*

- CRJ 425 - Transnational Crime *Units: 3*
- CRJ 430 - Victimology & Crime Victims *Units: 3*
- CRJ 435 - Prejudice, Violence, and Hate Crimes *Units: 3*
- CRJ 450 - Women in Criminal Justice *Units: 3*
- CRJ 455 - Youth Crime and Empowerment *Units: 3*
- CRJ 465 - Drugs, Law, and Society: Race, Gender, and U.S. Drug Policy
Units: 3
- CRJ 470 - Community Based Corrections *Units: 3*
- CRJ 475 - Restorative Justice *Units: 3*
- CRJ 483 - Seminar in Forensic Research *Units: 1*
- CRJ 490 - Independent Study *Units: 1-3*
- CRJ 495 - Practicum in Criminal Justice *Units: 3*
- CRJ 497 - Issues in Criminal Justice *Units: 3*

Other Undergraduate Degree Requirements

In addition to major requirements, every student must also complete the University's baccalaureate requirements for graduation, which are described in the Requirements, Exams & Testing chapter of this catalog.

Department Courses Listed by Course Type

Criminal Justice Courses

Department of Criminal Justice

Go to information for this department.

Courses

Criminal Justice

- CRJ 101 - Introduction to Criminal Justice *Units: 3*
- CRJ 210 - Elementary Criminal Law *Units: 3*
- CRJ 220 - Basic Criminal Investigation *Units: 3*
- CRJ 230 - Police Community Relations *Units: 3*
- CRJ 300 - Crime and Criminal Justice in the Media and Cinema *Units: 3*
- CRJ 310 - Corrections and Criminal Justice *Units: 3*
- CRJ 320 - Research Methods in Criminal Justice *Units: 3*
- CRJ 330 - Crime Prevention and Control *Units: 3*
- CRJ 340 - Advanced Criminal Investigation *Units: 3*
- CRJ 345 - Animal Cruelty and the Criminal Justice System *Units: 3*
- CRJ 350 - Criminal Identification *Units: 3*
- CRJ 360 - Police Organization and Management *Units: 3*
- CRJ 370 - Ethics and Criminal Justice Administration *Units: 3*
- CRJ 375 - Family Violence and the Criminal Justice System *Units: 3*
- CRJ 380 - Survey of Forensic Science *Units: 3*

- CRJ 398 - Internship *Units: 1-3*
- CRJ 400 - Sex Crime Investigation *Units: 3*
- CRJ 410 - Advanced Policing Innovations *Units: 3*
- CRJ 415 - Internship in Criminal Justice *Units: 3*
- CRJ 420 - White Collar Crime *Units: 3*
- CRJ 425 - Transnational Crime *Units: 3*
- CRJ 430 - Victimology & Crime Victims *Units: 3*
- CRJ 435 - Prejudice, Violence, and Hate Crimes *Units: 3*
- CRJ 450 - Women in Criminal Justice *Units: 3*
- CRJ 455 - Youth Crime and Empowerment *Units: 3*
- CRJ 460 - Crime Theory *Units: 3*
- CRJ 465 - Drugs, Law, and Society: Race, Gender, and U.S. Drug Policy *Units: 3*
- CRJ 470 - Community Based Corrections *Units: 3*
- CRJ 475 - Restorative Justice *Units: 3*
- CRJ 480 - Criminal Law and Courts *Units: 3*
- CRJ 483 - Seminar in Forensic Research *Units: 1*
- CRJ 490 - Independent Study *Units: 1-3*
- CRJ 495 - Practicum in Criminal Justice *Units: 3*
- CRJ 497 - Issues in Criminal Justice *Units: 3*

Minor

Criminal Justice Minor

Minor Requirements (24 units)

The purpose of the minor is to provide interested students with the opportunity to study the central areas of criminal justice. The selected courses will offer instruction in law, law enforcement, ethics, corrections and the courts. The minor allows those students with career plans in the social services and business administration to acquire knowledge of criminal justice, a career area with high employment prospects.

Note: Credit/No Credit (CR/NC) grading is not permitted for classes used to meet minor requirements. A C (2.0) or higher is required to pass all courses in the minor.

Lower Division

Take the following 9 units:

- CRJ 101 - Introduction to Criminal Justice *Units: 3*
- CRJ 210 - Elementary Criminal Law *Units: 3*
- CRJ 220 - Basic Criminal Investigation *Units: 3*

Lower Division Statistics Requirement

Take the following 3 units:

- STAT 100 - Elements of Statistics and Probability *Units: 3 ; G.E./G.R. Area: B4*

Upper Division Requirements

Take the following 12 units:

- CRJ 310 - Corrections and Criminal Justice *Units: 3*
- OR CRJ 470 - Community Based Corrections *Units: 3*
- CRJ 330 - Crime Prevention and Control *Units: 3*
- OR CRJ 430 - Victimology & Crime Victims *Units: 3*
- CRJ 360 - Police Organization and Management *Units: 3*
- OR CRJ 410 - Advanced Policing Innovations *Units: 3*
- CRJ 370 - Ethics and Criminal Justice Administration *Units: 3*

Department Courses Listed by Course Type

Criminal Justice Courses

Department of Criminal Justice

Go to information for this department.

Courses

Criminal Justice

- CRJ 101 - Introduction to Criminal Justice *Units: 3*
- CRJ 210 - Elementary Criminal Law *Units: 3*
- CRJ 220 - Basic Criminal Investigation *Units: 3*
- CRJ 230 - Police Community Relations *Units: 3*
- CRJ 300 - Crime and Criminal Justice in the Media and Cinema *Units: 3*
- CRJ 310 - Corrections and Criminal Justice *Units: 3*
- CRJ 320 - Research Methods in Criminal Justice *Units: 3*
- CRJ 330 - Crime Prevention and Control *Units: 3*
- CRJ 340 - Advanced Criminal Investigation *Units: 3*
- CRJ 345 - Animal Cruelty and the Criminal Justice System *Units: 3*
- CRJ 350 - Criminal Identification *Units: 3*
- CRJ 360 - Police Organization and Management *Units: 3*
- CRJ 370 - Ethics and Criminal Justice Administration *Units: 3*
- CRJ 375 - Family Violence and the Criminal Justice System *Units: 3*
- CRJ 380 - Survey of Forensic Science *Units: 3*
- CRJ 398 - Internship *Units: 1-3*
- CRJ 400 - Sex Crime Investigation *Units: 3*
- CRJ 410 - Advanced Policing Innovations *Units: 3*
- CRJ 415 - Internship in Criminal Justice *Units: 3*
- CRJ 420 - White Collar Crime *Units: 3*
- CRJ 425 - Transnational Crime *Units: 3*

- • CRJ 430 - Victimology & Crime Victims *Units: 3*
- • CRJ 435 - Prejudice, Violence, and Hate Crimes *Units: 3*
- • CRJ 450 - Women in Criminal Justice *Units: 3*
- • CRJ 455 - Youth Crime and Empowerment *Units: 3*
- • CRJ 460 - Crime Theory *Units: 3*
- • CRJ 465 - Drugs, Law, and Society: Race, Gender, and U.S. Drug Policy *Units: 3*
- • CRJ 470 - Community Based Corrections *Units: 3*
- • CRJ 475 - Restorative Justice *Units: 3*
- • CRJ 480 - Criminal Law and Courts *Units: 3*
- • CRJ 483 - Seminar in Forensic Research *Units: 1*
- • CRJ 490 - Independent Study *Units: 1-3*
- • CRJ 495 - Practicum in Criminal Justice *Units: 3*
- • CRJ 497 - Issues in Criminal Justice *Units: 3*

Department of Earth and Environmental Sciences

The Department Office is located on the 3rd Floor of the North Science (SC-N) building, Room 329.

Open 8:30 a.m. - 5:30 p.m., Monday - Thursday, closed Fridays.

Dept. Phone: (510) 885-3486

Faculty

Professors

Mitchell Craig, Ph.D. Georgia Institute of Technology

Jean E. Moran, (Chair), Ph.D. University of Rochester

Jeffery C. Seitz, Ph.D. Virginia Polytechnic Institute and State University

Associate Professor

Luther M. Strayer, Ph.D. University of Minnesota

Assistant Professors

Michael Massey, Ph.D. Stanford University

Patricia Oikawa, Ph.D. University of Virginia

José Rosario, Ph.D. Cornell University

Environmental Science Program Coordinator: Michael Massey

Department Statement

The Department of Earth and Environmental Sciences at Cal State East Bay is the home of the Geology and Environmental Science programs. Located on the tectonically active Hayward fault, we offer a variety of opportunities for students to obtain experience in lab- and field-based studies. We are a small department that prides itself on a feeling of community. Small class sizes guarantee close interaction between students and faculty, with personal attention at all levels.

About the Department

Use our university website link to learn more about what the Earth and Environmental Sciences Department has to offer.

- [Announcements & Events](#)
- [Faculty Profiles](#)
- [Scholarships & Awards](#)
- [East Bay Science Project](#)
- [Important Links](#)
- [USGS \(DYFI\)](#)
- [And more...](#)

Bachelor

Environmental Science, B.S.

Environmental Science, B.S. Program (120 units)

Program Description

The Department of Earth and Environmental Sciences offers undergraduate study leading to the Bachelor of Science degree in Environmental Science, focusing on developing strong foundational knowledge and a broad set of field and laboratory skills that allow students to seek employment, or prepare them for continued academic study in the Earth and environmental sciences.

Environmental science is an interdisciplinary field, focusing on the study of physical, chemical, and biological processes that underpin both natural ecosystems and human-influenced systems. While their focus is often on the physical and life sciences, environmental scientists must also be mindful of social issues, political context, economic factors, and human well-being in order to understand environmental issues and address environmental problems. The coursework for the Environmental Science degree reflects this broad, systems-level approach, with coursework in science and mathematics, as well as the social sciences. This allows students to gain a deeper understanding of the science and social issues involved in addressing complex environmental problems such as environmental contamination, access to food and safe drinking water, and climate change.

The undergraduate degree program in Environmental Science includes a core of required courses intended to provide students with an understanding of the fundamental principles of biology, chemistry, geology, mathematics, physics, and statistics necessary to understand environmental challenges. In addition, further required courses and electives allow students to apply this fundamental knowledge to broader environmental issues and problems, and to deepen their understanding of natural systems, human

systems, and sustainability. The Environmental Science B.S. program serves as preparation for employment in a variety of related fields, both in technical and policy/management roles requiring extensive technical knowledge and background. Due to the breadth of disciplines involved in environmental science, students wishing to do independent work professionally may wish to consider graduate study in a field of specialization, if further training is required for their chosen path.

The Environmental Science B.S. with a concentration in Environmental Health focuses on environmental hazards impacting human health (toxic and hazardous substances, physical and biological hazards, etc.) Above and beyond the general path, the concentration in Environmental Health prepares students for employment as Registered Environmental Health Specialists in the State of California.

The Bachelor of Science (B.S.) program is designed to prepare students for:

- Entry-level employment as environmental scientists in government (city, county, regional, state, and federal), and in private industry (environmental consulting, water and wastewater treatment, environmental health and safety, hazardous materials management, environmental remediation, etc.)
- Graduate study in environmental science, Earth science, Earth systems science, environmental chemistry, climate science, etc.
- The undergraduate Environmental Science program emphasizes field and laboratory training. Many opportunities for field- and laboratory-based research exist throughout Northern California and elsewhere. This program reflects departmental expertise by focusing on issues important to the local and regional communities, such as water availability, water quality, soil remediation, environmental impacts of urban and agricultural communities, and coastal issues of importance to the San Francisco Bay region and the State of California. Rigorous coursework is augmented by field experiences that allow students to synthesize classroom concepts in natural laboratories. Seminars and topical courses address diverse subjects, for example: water contamination, sustainable management of food waste, hazardous waste management, and human use of groundwater and surface water. The Department of Earth and Environmental Sciences maintains strong connections with East Bay Regional Parks, the California Environmental Protection Agency, Lawrence Livermore National Laboratory, NASA Ames, the U.S. Geological Survey in Menlo Park, and SLAC National Accelerator Laboratory.
- Students with strong records in the B.S. degree may be able to engage in guided, individual research projects, working with faculty on their research. Students wishing to pursue a senior thesis should make contact with a faculty advisor at least one full semester in advance to discuss topic and feasibility.
- The Earth & Environmental Science Club, a student-run organization, sponsors a variety of activities including guest speakers, field trips, employment workshops, and student-faculty gatherings. The club is an important part of department life, providing students with opportunities to make professional contacts, to explore graduate school and professional options, and to enjoy the company of others with similar interests.

Career Opportunities

Analytical Laboratory Technician • Drinking Water Treatment Specialist • Environmental Analyst • Environmental Chemist • Environmental Health and Safety Specialist • Environmental Policy, Planning, and Management • Environmental Remediation Specialist • Hydrologist • Hazardous Waste Management Specialist • Park Ranger • Wastewater Treatment Specialist

Program Learning Outcomes

Students graduating with a B.S. in Environmental Science will:

I. Demonstrate foundational knowledge of Earth processes, natural systems, and the effects of human activity (Knowledge)

- Identify key components of the Earth system, and describe the physical, chemical, and biological processes by which Earth systems interact on a variety of scales.
- Apply an interdisciplinary understanding of biology, geology, chemistry, physics, mathematics, and statistics to understanding environmental issues.
- Articulate the impacts of humans on the environment, and the roles of humans in avoiding, mitigating, or remediating environmental impacts.
- Articulate the relationship between scientific findings, the impact of humans on the environment, and the concept of sustainability.

II. Develop fundamental field, laboratory, and computer skills necessary for environmental science (Skills)

- Identify key geologic materials and organisms, and describe their features and importance in the environment.
- Perform basic field and laboratory-based tasks such as chemical analysis, physical analysis, data collection, statistical analysis, and data analysis using standard techniques and equipment.
- Demonstrate competency with basic computational tools and software for data collection, analysis, and effective communication.
- Collaborate effectively with others to accomplish tasks in field and laboratory settings.

III. Critically evaluate, analyze, and integrate scientific findings, data, and socioeconomic context to understand environmental issues (Analysis and synthesis)

- Critically read, analyze, and critique research literature, popular literature, and scientific data from an interdisciplinary scientific and quantitative perspective.
- Articulate the socioeconomic context relevant to environmental issues, including environmental impacts on diverse and vulnerable populations, and environmental justice.
- Integrate scientific findings and socioeconomic context to synthesize an interdisciplinary understanding of environmental issues.
- Understand the complex relationships between local and global needs, and the relationship between human actions and consequences at local and global scales.

IV. Effectively communicate in oral and written form, and develop collaborative skills (Communication)

- Present positions on environmental issues clearly in written form, using words, graphs, tables, and figures as appropriate.
- Communicate effectively in oral form, using prepared presentations.
- Understand the importance of considering competing or contrary viewpoints, as a fundamental part of the scientific process.
- Function responsibly as a member of a diverse team, demonstrating professionalism and effective communication between team members.

V. Understand the role of the environmental science in local, regional, and global sustainability, and the role of an ethical scientist (Sustainability and global thinking)

- Articulate Earth's place in the Universe, global-scale processes such as climate change, and the interactions of Earth systems with human systems.
- Understand the roles and impacts of society and technology on resource use and sustainability (environmental, economic, and social) at local, regional, and global scales.
- Apply knowledge and skills in a responsible, professional, and ethical manner, with an awareness of potential consequences at multiple scales.

VI. Synthesize scientific and technical knowledge and skills, and knowledge of policy and society, to articulate solutions to environmental hazards (toxic substances, climate change, etc.) impacting human health.

Degree Requirements Unit-Outline

- A baccalaureate of arts degree requires a total of 120 units;
- The major requirements consists of 71-81 units
- General Education (GE) & Graduation Requirements (GR) consists of 57 units;
- Free Electives may consist of 0 units (*actual number of free elective units may depend on GE/GR units*).

Note: It may be possible to double-count units within the graduation requirements or that a course may satisfy both a graduation requirement and a major requirement. Students should contact their program and AACE advisors for information.

Environmental Science Major Requirements (71-81 units)

Lower Division Requirements

Lower-division core courses focus on fundamental biological, chemical, geological, mathematical, and physical concepts. In addition, lower-division core courses introduce the application of fundamental knowledge to understanding Earth systems and environmental systems. This area is 34 units.

- ENSC 240 - Environmental Biology Units: 3 ; G.E./G.R. Area: B2; Sustainability
- ENSC 241 - Environmental Biology Laboratory Units: 1 ; G.E./G.R. Area: B3
- ENSC 280 - Humans and the Environment in California Units: 3 ; G.E./G.R. Area: B1; Sustainability
- ENSC 297 - Introductory Field Experience Units: 1
- GEOL 210 - Physical and Environmental Geology Units: 4 ; G.E./G.R. Area: B1, B3
- CHEM 111 - General Chemistry I Units: 5 ; G.E./G.R. Area: B1, B3
- CHEM 112 - General Chemistry II Units: 5
- PHYS 125 - Principles of Physics I Units: 4 ; G.E./G.R. Area: B1, B3
- PHYS 126 - Principles of Physics II Units: 4 ; G.E./G.R. Area: B1, B3
- MATH 130 - Calculus I Units: 4 ; G.E./G.R. Area: B4

Upper Division Requirements

The following upper-division core, for 16 units, are required:

All of the following 9 units are required:

- BIOL 350 - Ecology Units: 4
- ENSC 397 - Advanced Field Experience Units: 2
- ENVT 410 - Environmental Impact Analysis Units: 3

Plus choose one (1) of the following for 4 units:

- ENSC 350 - Environmental Hydrology Units: 4 ; G.E./G.R. Area: Sustainability
- GEOL 432 - Hydrogeology Units: 4

And, choose one (1) of the following for 3 units:

- **STAT 303 - Statistical Methods in Biology** *Units: 3*
- **STAT 310 - Statistical Methods in the Social Sciences** *Units: 3*

Capstone Requirement

The following capstone experience, for 3 units, is required to complete the major:

- **ENSC 499 - Capstone Seminar in Geosciences** *Units: 3*

Elective Coursework

Only students NOT choosing the Environmental Health concentration are required to select 18-21 units of elective coursework as outlined below:

Choose one (1) course for 3 units:

- **GEOG 225 - Fundamentals of GIS** *Units: 3*
- **ENSC 260 - Introduction to GIS in Earth and Environmental Sciences** *Units: 3 ; G.E./G.R. Area: B1, B3*

Plus choose one (1) course for 3 units from the following:

- **ENSC 414 - Hazardous Waste Management** *Units: 3 ; G.E./G.R. Area: Sustainability*
- **ENSC 420 - Global Change** *Units: 3 ; G.E./G.R. Area: Sustainability*
- **ENSC 497 - Special Topics and Issues in Environmental Sciences** *Units: 3*

And, choose one (1) course for 3-4 units from the following:

- **ECON 360 - Environmental Economics** *Units: 3*
- **ENGL 342 - Environmental Literature** *Units: 4 ; G.E./G.R. Area: C4; Sustainability*
- **ENVT 330 - Environment, Sustainability, and Social Justice** *Units: 3 ; G.E./G.R. Area: D4; Sustainability*
- **HSC 340 - Climate Change and Public Health** *Units: 3*
- **POSC 344 - Environmental Law** *Units: 3*
- **POSC 411 - Public Policy and the Environment** *Units: 3*
- **SOC 330 - Environmental Sociology** *Units: 4*

Depth Electives

Choose a minimum of 9-11 units from the following depth-electives:

- **BIOL 433 - Microbial Ecology** *Units: 3*
- **BIOL 454 - Biology of Fungi** *Units: 4*
- **BIOL 469 - Conservation Biology** *Units: 4*
- **CHEM 220 - Quantitative Analysis** *Units: 4*
- **CHEM 331 - Organic Chemistry I** *Units: 5*
- **CHEM 425 - Environmental Chemistry** *Units: 4*
- **ENSC 410 - Geohealth** *Units: 3*
- **GEOG 425 - Advanced GIS** *Units: 3*

- GEOL 311 - Geomorphology *Units: 3*
- GEOL 360 - Mineralogy and Optical Crystallography *Units: 4*
- GEOL 371 - Sedimentary Geology and Stratigraphy *Units: 4*
- GEOL 460 - Geographic Information Systems for Earth and Environmental Sciences *Units: 4*
- HSC 300 - Environmental Health *Units: 3 ; G.E./G.R. Area: B6; Sustainability*
- HSC 460 - Emergency Preparedness and Response *Units: 3*
- *Other upper-division major-related courses may be used with prior consent of the faculty advisor.*
- *One ENSC graduate-level course may be used to satisfy one elective with prior consent of the faculty advisor and instructor consent.*

Other Undergraduate Degree Requirements

In addition to major requirements, every student must also complete the University's baccalaureate requirements for graduation, which are described in the Requirements, Exams & Testing chapter of this catalog.

Department Courses Listed by Course Type

Earth and Environmental Sciences Courses

Department of Earth and Environmental Sciences

Go to information for this department.

Courses

Environmental Science

- ENSC 210 - Physical and Environmental Geology *Units: 4 ; G.E./G.R. Area: B1, B3*
- ENSC 211 - Historical Geology *Units: 4*
- ENSC 220 - Warming Planet, Rising Seas, and Global Change *Units: 3 ; G.E./G.R. Area: B1; Sustainability*
- ENSC 235 - Disasters on Earth and in Hollywood *Units: 3 ; G.E./G.R. Area: B1; Sustainability*
- ENSC 240 - Environmental Biology *Units: 3 ; G.E./G.R. Area: B2; Sustainability*
- ENSC 241 - Environmental Biology Laboratory *Units: 1 ; G.E./G.R. Area: B3*
- ENSC 250 - Oil, Water and Future Earth *Units: 3 ; G.E./G.R. Area: B1; Sustainability*
- ENSC 260 - Introduction to GIS in Earth and Environmental Sciences *Units: 3 ; G.E./G.R. Area: B1, B3*
- ENSC 280 - Humans and the Environment in California *Units: 3 ; G.E./G.R. Area: B1; Sustainability*
- ENSC 297 - Introductory Field Experience *Units: 1*
- ENSC 311 - Geomorphology *Units: 3*
- ENSC 320 - The Science of Global Change *Units: 3 ; G.E./G.R. Area: B6; Sustainability*
- ENSC 330 - Weather and the Atmosphere *Units: 3 ; G.E./G.R. Area: B6; Sustainability*
- ENSC 340 - The Oceans *Units: 3 ; G.E./G.R. Area: B6; Sustainability*
- ENSC 343 - Atmospheric Science *Units: 3*
- ENSC 350 - Environmental Hydrology *Units: 4 ; G.E./G.R. Area: Sustainability*

- ENSC 397 - Advanced Field Experience *Units: 2*
- ENSC 410 - Geohealth *Units: 3*
- ENSC 414 - Hazardous Waste Management *Units: 3 ; G.E./G.R. Area: Sustainability*
- ENSC 420 - Global Change *Units: 3 ; G.E./G.R. Area: Sustainability*
- ENSC 460 - Geographic Information Systems for Earth and Environmental Sciences *Units: 4*
- ENSC 490 - Independent Study *Units: 1-4*
- ENSC 497 - Special Topics and Issues in Environmental Sciences *Units: 3*
- ENSC 499 - Capstone Seminar in Geosciences *Units: 3*

Environmental Science: Graduate

- ENSC 601 - Professional Ethics in Environmental Geosciences *Units: 1*
- ENSC 631 - Isotope Geochemistry *Units: 4*
- ENSC 632 - Groundwater Flow and Contaminant Transport *Units: 4*
- ENSC 634 - Biogeochemistry *Units: 4*
- ENSC 671 - Field Experience *Units: 1-2*
- ENSC 698 - Internship *Units: 1-3*

Geology

- GEOL 100 - Earth Systems Science *Units: 4 ; G.E./G.R. Area: B1, B3; Sustainability*
- GEOL 101 - Introduction to the Earth Sciences *Units: 3 ; G.E./G.R. Area: B1; Sustainability*
- GEOL 102 - Earth Sciences Laboratory *Units: 1 ; G.E./G.R. Area: B3*
- GEOL 120 - Introduction to Oceanography *Units: 3 ; G.E./G.R. Area: B1; Sustainability*
- GEOL 210 - Physical and Environmental Geology *Units: 4 ; G.E./G.R. Area: B1, B3*
- GEOL 211 - Historical Geology *Units: 4*
- GEOL 230 - Natural Disasters *Units: 3 ; G.E./G.R. Area: B1; Sustainability*
- GEOL 231 - Natural Hazards *Units: 3*
- GEOL 235 - Disasters on Earth and in Hollywood *Units: 3 ; G.E./G.R. Area: B1; Sustainability*
- GEOL 260 - Introduction to GIS in Earth and Environmental Sciences *Units: 3 ; G.E./G.R. Area:*

B1, B3

- GEOL 297 - Introductory Field Experience *Units: 1*
- GEOL 301 - Earth Science Connections *Units: 3*
- GEOL 302 - Earth Science Connections Laboratory *Units: 1*
- GEOL 310 - Geology of the Western National Parks *Units: 3 ; G.E./G.R. Area: B6*
- GEOL 311 - Geomorphology *Units: 3*
- GEOL 325 - Volcanoes and Plate Tectonics *Units: 3 ; G.E./G.R. Area: B6*
- GEOL 330 - Weather and the Atmosphere *Units: 3 ; G.E./G.R. Area: B6; Sustainability*
- GEOL 340 - The Oceans *Units: 3 ; G.E./G.R. Area: B6; Sustainability*
- GEOL 341 - General Oceanography *Units: 4*
- GEOL 342 - Planetary Geology *Units: 3*
- GEOL 343 - Atmospheric Science *Units: 3*
- GEOL 350 - Environmental Hydrology *Units: 4 ; G.E./G.R. Area: Sustainability*
- GEOL 360 - Mineralogy and Optical Crystallography *Units: 4*
- GEOL 361 - Igneous and Metamorphic Petrology *Units: 4*
- GEOL 371 - Sedimentary Geology and Stratigraphy *Units: 4*
- GEOL 381 - Structural Geology *Units: 5*
- GEOL 397 - Advanced Field Experience *Units: 2*
- GEOL 398 - Internship *Units: 1-3*
- GEOL 410 - Geohealth *Units: 3*
- GEOL 414 - Hazardous Waste Management *Units: 3 ; G.E./G.R. Area: Sustainability*
- GEOL 431 - Applied Geophysics *Units: 4*
- GEOL 432 - Hydrogeology *Units: 4*

- • GEOL 441 - Earthquake Geology *Units: 3*
- • GEOL 490 - Independent Study *Units: 1-3*
- • GEOL 497 - Issues in Geosciences *Units: 3*
- • GEOL 499 - Capstone Seminar in Geosciences *Units: 3*

Geology: Graduate

- • GEOL 601 - Professional Ethics in Environmental Geosciences *Units: 1*
- • GEOL 602 - Graduate Seminar *Units: 2*
- • GEOL 621 - Near Surface Geophysics *Units: 4*
- • GEOL 622 - Seismic Exploration *Units: 4*
- • GEOL 631 - Isotope Geochemistry *Units: 4*
- • GEOL 632 - Groundwater Flow and Contaminant Transport *Units: 4*
- • GEOL 633 - The Science of Soils *Units: 4*
- • GEOL 634 - Biogeochemistry *Units: 4*
- • GEOL 641 - Earthquake Geology *Units: 4*
- • GEOL 643 - Tectonic Geomorphology *Units: 4*
- • GEOL 644 - Structural Styles of Plate Margins and Regions *Units: 4*
- • GEOL 645 - Engineering Geology *Units: 4*
- • GEOL 646 - Quaternary Geology *Units: 4*
- • GEOL 650 - Professional Certification Preparation *Units: 3*
- • GEOL 671 - Field Experience *Units: 1-2*
- • GEOL 690 - Independent Study *Units: 1-3*
- • GEOL 691 - University Thesis *Units: 1-6*
- • GEOL 693 - Project *Units: 1-2*
- • GEOL 697 - Issues in Geosciences *Units: 3*
- • GEOL 698 - Internship *Units: 1-3*

Environmental Science, B.S.: Environmental Health Concentration

Environmental Science, B.S. Program (120 units)

Program Description

The Department of Earth and Environmental Sciences offers undergraduate study leading to the Bachelor of Science degree in Environmental Science, focusing on developing strong foundational knowledge and a broad set of field and laboratory skills that allow students to seek employment, or prepare them for continued academic study in the Earth and environmental sciences.

Environmental science is an interdisciplinary field, focusing on the study of physical, chemical, and biological processes that underpin both natural ecosystems and human-influenced systems. While their focus is often on the physical and life sciences, environmental scientists must also be mindful of social issues, political context, economic factors, and human well-being in order to understand environmental issues and address environmental problems. The coursework for the Environmental Science degree reflects this broad, systems-level approach, with coursework in science and mathematics, as well as the social sciences. This allows students to gain a deeper understanding of the science and social issues involved in addressing complex environmental problems such as environmental contamination, access to food and safe drinking water, and climate change.

The undergraduate degree program in Environmental Science includes a core of required courses intended to provide students with an understanding of the fundamental principles of biology, chemistry, geology,

mathematics, physics, and statistics necessary to understand environmental challenges. In addition, further required courses and electives allow students to apply this fundamental knowledge to broader environmental issues and problems, and to deepen their understanding of natural systems, human systems, and sustainability. The Environmental Science B.S. program serves as preparation for employment in a variety of related fields, both in technical and policy/management roles requiring extensive technical knowledge and background. Due to the breadth of disciplines involved in environmental science, students wishing to do independent work professionally may wish to consider graduate study in a field of specialization, if further training is required for their chosen path.

The Environmental Science B.S. with a concentration in Environmental Health focuses on environmental hazards impacting human health (toxic and hazardous substances, physical and biological hazards, etc.) Above and beyond the general path, the concentration in Environmental Health prepares students for employment as Registered Environmental Health Specialists in the State of California.

The Bachelor of Science (B.S.) program is designed to prepare students for:

- Entry-level employment as environmental scientists in government (city, county, regional, state, and federal), and in private industry (environmental consulting, water and wastewater treatment, environmental health and safety, hazardous materials management, environmental remediation, etc.)
- Graduate study in environmental science, Earth science, Earth systems science, environmental chemistry, climate science, etc.
- The undergraduate Environmental Science program emphasizes field and laboratory training. Many opportunities for field- and laboratory-based research exist throughout Northern California and elsewhere. This program reflects departmental expertise by focusing on issues important to the local and regional communities, such as water availability, water quality, soil remediation, environmental impacts of urban and agricultural communities, and coastal issues of importance to the San Francisco Bay region and the State of California. Rigorous coursework is augmented by field experiences that allow students to synthesize classroom concepts in natural laboratories. Seminars and topical courses address diverse subjects, for example: water contamination, sustainable management of food waste, hazardous waste management, and human use of groundwater and surface water. The Department of Earth and Environmental Sciences maintains strong connections with East Bay Regional Parks, the California Environmental Protection Agency, Lawrence Livermore National Laboratory, NASA Ames, the U.S. Geological Survey in Menlo Park, and SLAC National Accelerator Laboratory.
- Students with strong records in the B.S. degree may be able to engage in guided, individual research projects, working with faculty on their research. Students wishing to pursue a senior thesis should make contact with a faculty advisor at least one full semester in advance to discuss topic and feasibility.
- The Earth & Environmental Science Club, a student-run organization, sponsors a variety of activities including guest speakers, field trips, employment workshops, and student-faculty gatherings. The club is an important part of department life, providing students with opportunities to make professional contacts, to explore graduate school and professional options, and to enjoy the company of others with similar interests.

Career Opportunities

Analytical Laboratory Technician • Drinking Water Treatment Specialist • Environmental Analyst • Environmental Chemist • Environmental Health and Safety Specialist • Environmental Policy, Planning, and Management • Environmental Remediation Specialist • Hydrologist • Hazardous Waste Management Specialist • Park Ranger • Wastewater Treatment Specialist

Program Learning Outcomes

Students graduating with a B.S. in Environmental Science will:

I. Demonstrate foundational knowledge of Earth processes, natural systems, and the effects of human activity (Knowledge)

- Identify key components of the Earth system, and describe the physical, chemical, and biological processes by which Earth systems interact on a variety of scales.
- Apply an interdisciplinary understanding of biology, geology, chemistry, physics, mathematics, and statistics to understanding environmental issues.
- Articulate the impacts of humans on the environment, and the roles of humans in avoiding, mitigating, or remediating environmental impacts.
- Articulate the relationship between scientific findings, the impact of humans on the environment, and the concept of sustainability.

II. Develop fundamental field, laboratory, and computer skills necessary for environmental science (Skills)

- Identify key geologic materials and organisms, and describe their features and importance in the environment.
- Perform basic field and laboratory-based tasks such as chemical analysis, physical analysis, data collection, statistical analysis, and data analysis using standard techniques and equipment.
- Demonstrate competency with basic computational tools and software for data collection, analysis, and effective communication.
- Collaborate effectively with others to accomplish tasks in field and laboratory settings.

III. Critically evaluate, analyze, and integrate scientific findings, data, and socioeconomic context to understand environmental issues (Analysis and synthesis)

- Critically read, analyze, and critique research literature, popular literature, and scientific data from an interdisciplinary scientific and quantitative perspective.
- Articulate the socioeconomic context relevant to environmental issues, including environmental impacts on diverse and vulnerable populations, and environmental justice.
- Integrate scientific findings and socioeconomic context to synthesize an interdisciplinary understanding of environmental issues.
- Understand the complex relationships between local and global needs, and the relationship between human actions and consequences at local and global scales.

IV. Effectively communicate in oral and written form, and develop collaborative skills (Communication)

- Present positions on environmental issues clearly in written form, using words, graphs, tables, and figures as appropriate.
- Communicate effectively in oral form, using prepared presentations.
- Understand the importance of considering competing or contrary viewpoints, as a fundamental part of the scientific process.
- Function responsibly as a member of a diverse team, demonstrating professionalism and effective communication between team members.

V. Understand the role of the environmental science in local, regional, and global sustainability, and the role of an ethical scientist (Sustainability and global thinking)

- Articulate Earth's place in the Universe, global-scale processes such as climate change, and the interactions of Earth systems with human systems.
- Understand the roles and impacts of society and technology on resource use and sustainability (environmental, economic, and social) at local, regional, and global scales.

- Apply knowledge and skills in a responsible, professional, and ethical manner, with an awareness of potential consequences at multiple scales.
- VI. Synthesize scientific and technical knowledge and skills, and knowledge of policy and society, to articulate solutions to environmental hazards (toxic substances, climate change, etc.) impacting human health.

Degree Requirements Unit-Outline

- A baccalaureate of arts degree requires a total of 120 units:
- The major requirements consists of 71-81 units
- General Education (GE) & Graduation Requirements (GR) consists of 57 units;
- Free Electives may consist of 0 units (*actual number of free elective units may depend on GE/GR units*).

Note: It may be possible to double-count units within the graduation requirements or that a course may satisfy both a graduation requirement and a major requirement. Students should contact their program and AACE advisors for information.

Environmental Science Major Requirements (71-81 units)

Lower Division Requirements

Lower-division core courses focus on fundamental biological, chemical, geological, mathematical, and physical concepts. In addition, lower-division core courses introduce the application of fundamental knowledge to understanding Earth systems and environmental systems. This area is 34 units.

- ENSC 240 - Environmental Biology Units: 3 ; G.E./G.R. Area: B2; Sustainability
- ENSC 241 - Environmental Biology Laboratory Units: 1 ; G.E./G.R. Area: B3
- ENSC 280 - Humans and the Environment in California Units: 3 ; G.E./G.R. Area: B1; Sustainability
- ENSC 297 - Introductory Field Experience Units: 1
- GEOL 210 - Physical and Environmental Geology Units: 4 ; G.E./G.R. Area: B1, B3
- CHEM 111 - General Chemistry I Units: 5 ; G.E./G.R. Area: B1, B3
- CHEM 112 - General Chemistry II Units: 5
- PHYS 125 - Principles of Physics I Units: 4 ; G.E./G.R. Area: B1, B3
- PHYS 126 - Principles of Physics II Units: 4 ; G.E./G.R. Area: B1, B3
- MATH 130 - Calculus I Units: 4 ; G.E./G.R. Area: B4

Upper Division Requirements

The following upper-division core, for 16 units, are required:

All of the following 9 units are required:

- BIOL 350 - Ecology Units: 4
- ENSC 397 - Advanced Field Experience Units: 2
- ENVT 410 - Environmental Impact Analysis Units: 3

Plus choose one (1) of the following for 4 units:

- ENSC 350 - Environmental Hydrology *Units: 4 ; G.E./G.R. Area: Sustainability*
- GEOL 432 - Hydrogeology *Units: 4*

And, choose one (1) of the following for 3 units:

- STAT 303 - Statistical Methods in Biology *Units: 3*
- STAT 310 - Statistical Methods in the Social Sciences *Units: 3*

Capstone Requirement

The following capstone experience, for 3 units, is required to complete the major:

- ENSC 499 - Capstone Seminar in Geosciences *Units: 3*

Environmental Health Concentration

The Environmental Health concentration, for 28 units, has a substantially restricted list of course requirements, intended to satisfy the California Registered Environmental Health Specialist (REHS) Option V certification pathway. The concentration requires certain specific courses in both the lower and upper division:

- BIOL 230 - Introduction to Clinical Microbiology *Units: 4 ; G.E./G.R. Area: B2, B3*
- CHEM 233 - Fundamentals of Organic Chemistry *Units: 3*
- ENSC 414 - Hazardous Waste Management *Units: 3 ; G.E./G.R. Area: Sustainability*
- HSC 130 - Health Humanities *Units: 3 ; G.E./G.R. Area: C2*
- HSC 300 - Environmental Health *Units: 3 ; G.E./G.R. Area: B6; Sustainability*
- HSC 330 - Epidemiology *Units: 3*
- HSC 362 - Environmental Health Policy *Units: 3 ; G.E./G.R. Area: D4*

Plus, select any two (2) from the following:

- HSC 385 - Vector Control *Units: 3*
- HSC 405 - Toxicology *Units: 3*
- HSC 420 - Occupational Health *Units: 3*
- PHYS 305 - Environmental Health Science Electromagnetic and Nuclear

Radiation *Units: 3*

- *(Students with advisor approval and instructor consent may use one ENSC graduate-level course to satisfy one elective)*

Other Undergraduate Degree Requirements

In addition to major requirements, every student must also complete the University's baccalaureate requirements for graduation, which are described in the Requirements, Exams & Testing chapter of this catalog.

Department Courses Listed by Course Type

Earth and Environmental Sciences Courses

Department of Earth and Environmental Sciences

Go to information for this department.

Courses

Environmental Science

- ENSC 210 - Physical and Environmental Geology *Units: 4 ; G.E./G.R. Area: B1, B3*
- ENSC 211 - Historical Geology *Units: 4*
- ENSC 220 - Warming Planet, Rising Seas, and Global Change *Units: 3 ; G.E./G.R. Area: B1; Sustainability*
- ENSC 235 - Disasters on Earth and in Hollywood *Units: 3 ; G.E./G.R. Area: B1; Sustainability*
- ENSC 240 - Environmental Biology *Units: 3 ; G.E./G.R. Area: B2; Sustainability*
- ENSC 241 - Environmental Biology Laboratory *Units: 1 ; G.E./G.R. Area: B3*
- ENSC 250 - Oil, Water and Future Earth *Units: 3 ; G.E./G.R. Area: B1; Sustainability*
- ENSC 260 - Introduction to GIS in Earth and Environmental Sciences *Units: 3 ; G.E./G.R. Area: B1, B3*
- ENSC 280 - Humans and the Environment in California *Units: 3 ; G.E./G.R. Area: B1; Sustainability*
- ENSC 297 - Introductory Field Experience *Units: 1*
- ENSC 311 - Geomorphology *Units: 3*
- ENSC 320 - The Science of Global Change *Units: 3 ; G.E./G.R. Area: B6; Sustainability*
- ENSC 330 - Weather and the Atmosphere *Units: 3 ; G.E./G.R. Area: B6; Sustainability*
- ENSC 340 - The Oceans *Units: 3 ; G.E./G.R. Area: B6; Sustainability*
- ENSC 343 - Atmospheric Science *Units: 3*
- ENSC 350 - Environmental Hydrology *Units: 4 ; G.E./G.R. Area: Sustainability*
- ENSC 397 - Advanced Field Experience *Units: 2*
- ENSC 410 - Geohealth *Units: 3*
- ENSC 414 - Hazardous Waste Management *Units: 3 ; G.E./G.R. Area: Sustainability*
- ENSC 420 - Global Change *Units: 3 ; G.E./G.R. Area: Sustainability*
- ENSC 460 - Geographic Information Systems for Earth and Environmental Sciences *Units: 4*
- ENSC 490 - Independent Study *Units: 1-4*
- ENSC 497 - Special Topics and Issues in Environmental Sciences *Units: 3*
- ENSC 499 - Capstone Seminar in Geosciences *Units: 3*

Environmental Science: Graduate

- ENSC 601 - Professional Ethics in Environmental Geosciences *Units: 1*
- ENSC 631 - Isotope Geochemistry *Units: 4*
- ENSC 632 - Groundwater Flow and Contaminant Transport *Units: 4*
- ENSC 634 - Biogeochemistry *Units: 4*
- ENSC 671 - Field Experience *Units: 1-2*
- ENSC 698 - Internship *Units: 1-3*

Geology

- GEOL 100 - Earth Systems Science *Units: 4 ; G.E./G.R. Area: B1, B3; Sustainability*
- GEOL 101 - Introduction to the Earth Sciences *Units: 3 ; G.E./G.R. Area: B1; Sustainability*
- GEOL 102 - Earth Sciences Laboratory *Units: 1 ; G.E./G.R. Area: B3*
- GEOL 120 - Introduction to Oceanography *Units: 3 ; G.E./G.R. Area: B1; Sustainability*
- GEOL 210 - Physical and Environmental Geology *Units: 4 ; G.E./G.R. Area: B1, B3*
- GEOL 211 - Historical Geology *Units: 4*

- GEOL 230 - Natural Disasters *Units: 3 ; G.E./G.R. Area: B1; Sustainability*
- GEOL 231 - Natural Hazards *Units: 3*
- GEOL 235 - Disasters on Earth and in Hollywood *Units: 3 ; G.E./G.R. Area: B1; Sustainability*
- GEOL 260 - Introduction to GIS in Earth and Environmental Sciences *Units: 3 ; G.E./G.R. Area:*

B1, B3

- GEOL 297 - Introductory Field Experience *Units: 1*
- GEOL 301 - Earth Science Connections *Units: 3*
- GEOL 302 - Earth Science Connections Laboratory *Units: 1*
- GEOL 310 - Geology of the Western National Parks *Units: 3 ; G.E./G.R. Area: B6*
- GEOL 311 - Geomorphology *Units: 3*
- GEOL 325 - Volcanoes and Plate Tectonics *Units: 3 ; G.E./G.R. Area: B6*
- GEOL 330 - Weather and the Atmosphere *Units: 3 ; G.E./G.R. Area: B6; Sustainability*
- GEOL 340 - The Oceans *Units: 3 ; G.E./G.R. Area: B6; Sustainability*
- GEOL 341 - General Oceanography *Units: 4*
- GEOL 342 - Planetary Geology *Units: 3*
- GEOL 343 - Atmospheric Science *Units: 3*
- GEOL 350 - Environmental Hydrology *Units: 4 ; G.E./G.R. Area: Sustainability*
- GEOL 360 - Mineralogy and Optical Crystallography *Units: 4*
- GEOL 361 - Igneous and Metamorphic Petrology *Units: 4*
- GEOL 371 - Sedimentary Geology and Stratigraphy *Units: 4*
- GEOL 381 - Structural Geology *Units: 5*
- GEOL 397 - Advanced Field Experience *Units: 2*
- GEOL 398 - Internship *Units: 1-3*
- GEOL 410 - Geohealth *Units: 3*
- GEOL 414 - Hazardous Waste Management *Units: 3 ; G.E./G.R. Area: Sustainability*
- GEOL 431 - Applied Geophysics *Units: 4*
- GEOL 432 - Hydrogeology *Units: 4*
- GEOL 441 - Earthquake Geology *Units: 3*
- GEOL 490 - Independent Study *Units: 1-3*
- GEOL 497 - Issues in Geosciences *Units: 3*
- GEOL 499 - Capstone Seminar in Geosciences *Units: 3*

Geology: Graduate

- GEOL 601 - Professional Ethics in Environmental Geosciences *Units: 1*
- GEOL 602 - Graduate Seminar *Units: 2*
- GEOL 621 - Near Surface Geophysics *Units: 4*
- GEOL 622 - Seismic Exploration *Units: 4*
- GEOL 631 - Isotope Geochemistry *Units: 4*
- GEOL 632 - Groundwater Flow and Contaminant Transport *Units: 4*
- GEOL 633 - The Science of Soils *Units: 4*
- GEOL 634 - Biogeochemistry *Units: 4*
- GEOL 641 - Earthquake Geology *Units: 4*
- GEOL 643 - Tectonic Geomorphology *Units: 4*
- GEOL 644 - Structural Styles of Plate Margins and Regions *Units: 4*
- GEOL 645 - Engineering Geology *Units: 4*
- GEOL 646 - Quaternary Geology *Units: 4*
- GEOL 650 - Professional Certification Preparation *Units: 3*
- GEOL 671 - Field Experience *Units: 1-2*
- GEOL 690 - Independent Study *Units: 1-3*
- GEOL 691 - University Thesis *Units: 1-6*
- GEOL 693 - Project *Units: 1-2*

- • GEOL 697 - Issues in Geosciences *Units: 3*
- • GEOL 698 - Internship *Units: 1-3*

Geology, B.A.

Geology, B.A. Program (120 units)

Program Description

Geology is the study of the earth and of life and the natural processes occurring on the planet through time. Students learn about the causes of processes such as earthquakes, volcanoes, the formation of mountains, the effect of erosion and deposition, and the formation of rocks and minerals and their uses. Coursework combined with observations on field trips provide Cal State East Bay students with an understanding of natural processes and the human impact on the environment.

The Geology, B.A. program offers the student a greater degree of flexibility and may be more appropriate for those who do not plan to become certified professional geologists or pursue graduate study. (*Note: Transfer from the Geology, B.A. to the Geology, B.S. program or vice versa can be accomplished.*) Students wishing to do independent geological work professionally or plan on graduate study should enroll in the B.S. program; see the B.S. program in Geology in the Department of Earth and Environmental Sciences.

The Department of Earth and Environmental Sciences offers undergraduate study leading to the Bachelor of Science and Bachelor of Arts degrees in Geology, focusing on developing strong foundational knowledge and a broad set of field and laboratory skills in the Earth sciences.

The B.A. program is designed to prepare students for:

- Entry-level employment as geologists and environmental scientists in government (city, county, regional, state, and federal) and private consulting firms (environmental, engineering, and geotechnical firms, mining and oil companies, etc.).
- K-12 Earth Science Education.

The undergraduate Geology programs emphasize field and laboratory training. Many opportunities for field and laboratory research exist throughout northern California and elsewhere. Our B.S. and B.A. program reflects departmental expertise by focusing on near-surface processes, hazards and resources, and concentrates on issues of regional and local importance to our community. Rigorous coursework is augmented by embedded and sequential field experiences that integrate classroom concepts in natural laboratories. Seminars and topical courses address diverse subjects, for example: geochemical evolution of groundwater, natural tracers of geologic processes, tectonic geomorphology, earthquake hazards, bay area tectonics, near-surface geophysics, and modern depositional environments. We maintain strong connections with East Bay Regional Parks, the California Environmental Protection Agency, Lawrence Livermore National Laboratory, NASA Ames, the U.S. Geological Survey in Menlo Park, and SLAC National Accelerator Laboratory.

The Earth & Environmental Science Club, a student-run organization, sponsors a variety of activities including guest speakers, field trips, employment workshops, and student-faculty gatherings. The club is an important part of department life, providing students with opportunities to make professional contacts, to explore graduate school and professional options, and to enjoy the company of others with similar interests.

Career Opportunities in Geology

Engineering

Geologist • Geochemist • Geologist • Geophysicist • Hydrologist • K-12

Education • Mineralogist • Oceanographer • Paleontologist • Park

Ranger • Petrologist • Seismologist • Soils Engineer • Stratigrapher

Geologist • Environmental

Earth

Science

Admission Requirements

There are four steps to the application process for most prospective students:

1. Applicants must submit an online CSU application for admission at <https://www2.calstate.edu/>.
2. Applicants must submit all supplementary documents required such as transcripts and standardized test scores.
3. Cal State East Bay will determine an applicant's eligibility based on criteria discussed in this chapter.
4. The university will notify the student of the decision.

Program Learning Outcomes

Students graduating with a BS/BA in Geology will be able to:

Develop foundational knowledge in geologic materials, processes & time

1. Identify and classify geologic materials and know their material and/or biological properties or characteristics.
2. Recognize and understand the fundamental geological processes, distribution of natural resources, the magnitude and importance of geologic time, and its role in geologic processes and evolution.
3. Understand and apply basic principles of chemistry and physics to geologic issues.
4. Understand the fundamental principles and subjects that form the core topics of Earth Science.

Develop fundamental geological field and laboratory skills and computer competence

1. Identify and classify, in the field, basic geologic materials, including minerals, rocks, fossils, structures, and landforms.
2. Collect, describe and organize samples of geologic materials in support of field investigations.
3. Create basic types of geologic maps with standard geology symbols, using standard field measurement techniques and equipment.
4. Perform basic types of geologic analysis, such as lithostratigraphic and biostratigraphic correlation, map construction, geophysical and hydrogeological studies, and cross-section construction.
5. Visualize and comprehend geological materials or structures in 3D based on 1D and 2D data sets.
6. Demonstrate competence in basic computer tools and software, and Internet utilization, and utilize appropriate software for geological analysis.

Integrate and analyze geologic information through synthesis & critical thinking

1. Interpret geological terrains (local & regional) by synthesis of literature, field and laboratory studies, to create maps, sections and reports that accurately and effectively illustrate the surficial distribution and 3D geometry of geologic materials and structures (rock, faults, geo-fluids, hazardous waste, etc.).
2. Access, critically read and critique research literature and geologic datasets (2D and 3D) using discipline-specific methods, techniques and equipment.

3. Analyze, interpret, and integrate diverse datasets to address and solve geological and scientific problems.

Develop oral and written communication, and collaborative skills

1. Critically analyze geological and environmental issues by evaluation of scientific literature, and then present their positions clearly and persuasively in written form through words, graphs, and tables, using appropriate formats.
2. Effectively communicate orally using prepared presentations.
3. Understand the importance of hearing, considering and integrating competing and/or contrary points of view to the scientific process.
4. Understand the complex issues and relationships that exist between local community and global needs for earth materials (fossil fuels, mineral reserves, water, etc.) and the effects of climate change on vulnerable populations
5. Work responsibly as a member of a team, demonstrate professional levels of conduct, and communicate effectively with team members through personal and electronic means.

Understand the impact of the Earth Sciences on local-to-global sustainability and their role as an ethical scientist

1. Understand Earth's place in the Universe, global-scale processes such as climate change, plate tectonics, earth systems interactions and rates, and the forcing factors/feedbacks that control them.
2. Have the breadth of education necessary to understand the importance of the Earth Sciences and technology in a global and societal context, and understand the effect of resource consumption on, and the importance of local-to-global-scale sustainability efforts.
3. Have knowledge of contemporary issues, such as sustainable resource development and the prediction of geological hazards.
4. Carry out responsibilities in a professional and ethical manner.

Degree Requirements Unit-Outline

- A baccalaureate of arts degree requires a total of 120 units:
 - The major requirements consists of 62 or 64 units
 - General Education (GE) & Graduation Requirements (GR) consists of 57 units;
 - Free Electives consists of 0-1 unit (*actual number of free elective units may depend on GE/GR units*).

Note: It may be possible to double-count units within the graduation requirements or that a course may satisfy both a graduation requirement and a major requirement. Students should contact their program and AACE advisors for information.

Geology (BA) Major Requirements (62-64 units)

Lower Division Core

The following 33 units of lower-division core coursework are required:

- CHEM 111 - General Chemistry I Units: 5 ; G.E./G.R. Area: B1, B3
- CHEM 112 - General Chemistry II Units: 5
- MATH 115 - College Algebra Units: 3 ; G.E./G.R. Area: B4
- PHYS 125 - Principles of Physics I Units: 4 ; G.E./G.R. Area: B1, B3
- PHYS 126 - Principles of Physics II Units: 4 ; G.E./G.R. Area: B1, B3
- GEOL 210 - Physical and Environmental Geology Units: 4 ; G.E./G.R. Area: B1, B3

- GEOL 211 - Historical Geology *Units: 4*
- GEOL 260 - Introduction to GIS in Earth and Environmental Sciences *Units: 3 ; G.E./G.R. Area: B1, B3*
- GEOL 297 - Introductory Field Experience *Units: 1*

Upper Division Core

The following 20 units of upper-division core coursework are required:

- GEOL 360 - Mineralogy and Optical Crystallography *Units: 4*
- GEOL 361 - Igneous and Metamorphic Petrology *Units: 4*
- GEOL 371 - Sedimentary Geology and Stratigraphy *Units: 4*
- GEOL 381 - Structural Geology *Units: 5*
- GEOL 499 - Capstone Seminar in Geosciences *Units: 3*

Elective Courses

General B.A. Geology degree program students must choose a minimum of 9 units from the following list to complete the major:

- ENSC 350 - Environmental Hydrology *Units: 4 ; G.E./G.R. Area: Sustainability*
- ENSC 410 - Geohealth *Units: 3*
- GEOL 311 - Geomorphology *Units: 3*
- GEOL 341 - General Oceanography *Units: 4*
- GEOL 342 - Planetary Geology *Units: 3*
- GEOL 343 - Atmospheric Science *Units: 3*
- GEOL 397 - Advanced Field Experience *Units: 2*
- GEOL 431 - Applied Geophysics *Units: 4*
- GEOL 432 - Hydrogeology *Units: 4*
- GEOL 441 - Earthquake Geology *Units: 3*
- GEOL 460 - Geographic Information Systems for Earth and Environmental Sciences *Units: 4*
- GEOL 490 - Independent Study *Units: 1-3*
- GEOL 497 - Issues in Geosciences *Units: 3*

Other Undergraduate Degree Requirements

In addition to major requirements, every student must also complete the University's baccalaureate requirements for graduation, which are described in the Requirements, Exams & Testing chapter of this catalog.

Department Courses Listed by Course Type

Earth and Environmental Sciences Courses

Department of Earth and Environmental Sciences

Go to information for this department.

Courses

Environmental Science

- ENSC 210 - Physical and Environmental Geology *Units: 4 ; G.E./G.R. Area: B1, B3*
- ENSC 211 - Historical Geology *Units: 4*
- ENSC 220 - Warming Planet, Rising Seas, and Global Change *Units: 3 ; G.E./G.R. Area: B1; Sustainability*
- ENSC 235 - Disasters on Earth and in Hollywood *Units: 3 ; G.E./G.R. Area: B1; Sustainability*
- ENSC 240 - Environmental Biology *Units: 3 ; G.E./G.R. Area: B2; Sustainability*
- ENSC 241 - Environmental Biology Laboratory *Units: 1 ; G.E./G.R. Area: B3*
- ENSC 250 - Oil, Water and Future Earth *Units: 3 ; G.E./G.R. Area: B1; Sustainability*
- ENSC 260 - Introduction to GIS in Earth and Environmental Sciences *Units: 3 ; G.E./G.R. Area: B1, B3*
- ENSC 280 - Humans and the Environment in California *Units: 3 ; G.E./G.R. Area: B1; Sustainability*
- ENSC 297 - Introductory Field Experience *Units: 1*
- ENSC 311 - Geomorphology *Units: 3*
- ENSC 320 - The Science of Global Change *Units: 3 ; G.E./G.R. Area: B6; Sustainability*
- ENSC 330 - Weather and the Atmosphere *Units: 3 ; G.E./G.R. Area: B6; Sustainability*
- ENSC 340 - The Oceans *Units: 3 ; G.E./G.R. Area: B6; Sustainability*
- ENSC 343 - Atmospheric Science *Units: 3*
- ENSC 350 - Environmental Hydrology *Units: 4 ; G.E./G.R. Area: Sustainability*
- ENSC 397 - Advanced Field Experience *Units: 2*
- ENSC 410 - Geohealth *Units: 3*
- ENSC 414 - Hazardous Waste Management *Units: 3 ; G.E./G.R. Area: Sustainability*
- ENSC 420 - Global Change *Units: 3 ; G.E./G.R. Area: Sustainability*
- ENSC 460 - Geographic Information Systems for Earth and Environmental Sciences *Units: 4*
- ENSC 490 - Independent Study *Units: 1-4*
- ENSC 497 - Special Topics and Issues in Environmental Sciences *Units: 3*
- ENSC 499 - Capstone Seminar in Geosciences *Units: 3*

Environmental Science: Graduate

- ENSC 601 - Professional Ethics in Environmental Geosciences *Units: 1*
- ENSC 631 - Isotope Geochemistry *Units: 4*
- ENSC 632 - Groundwater Flow and Contaminant Transport *Units: 4*
- ENSC 634 - Biogeochemistry *Units: 4*
- ENSC 671 - Field Experience *Units: 1-2*
- ENSC 698 - Internship *Units: 1-3*

Geology

- GEOL 100 - Earth Systems Science *Units: 4 ; G.E./G.R. Area: B1, B3; Sustainability*
- GEOL 101 - Introduction to the Earth Sciences *Units: 3 ; G.E./G.R. Area: B1; Sustainability*
- GEOL 102 - Earth Sciences Laboratory *Units: 1 ; G.E./G.R. Area: B3*
- GEOL 120 - Introduction to Oceanography *Units: 3 ; G.E./G.R. Area: B1; Sustainability*
- GEOL 210 - Physical and Environmental Geology *Units: 4 ; G.E./G.R. Area: B1, B3*
- GEOL 211 - Historical Geology *Units: 4*

- GEOL 230 - Natural Disasters *Units: 3 ; G.E./G.R. Area: B1; Sustainability*
- GEOL 231 - Natural Hazards *Units: 3*
- GEOL 235 - Disasters on Earth and in Hollywood *Units: 3 ; G.E./G.R. Area: B1; Sustainability*
- GEOL 260 - Introduction to GIS in Earth and Environmental Sciences *Units: 3 ; G.E./G.R. Area:*

B1, B3

- GEOL 297 - Introductory Field Experience *Units: 1*
- GEOL 301 - Earth Science Connections *Units: 3*
- GEOL 302 - Earth Science Connections Laboratory *Units: 1*
- GEOL 310 - Geology of the Western National Parks *Units: 3 ; G.E./G.R. Area: B6*
- GEOL 311 - Geomorphology *Units: 3*
- GEOL 325 - Volcanoes and Plate Tectonics *Units: 3 ; G.E./G.R. Area: B6*
- GEOL 330 - Weather and the Atmosphere *Units: 3 ; G.E./G.R. Area: B6; Sustainability*
- GEOL 340 - The Oceans *Units: 3 ; G.E./G.R. Area: B6; Sustainability*
- GEOL 341 - General Oceanography *Units: 4*
- GEOL 342 - Planetary Geology *Units: 3*
- GEOL 343 - Atmospheric Science *Units: 3*
- GEOL 350 - Environmental Hydrology *Units: 4 ; G.E./G.R. Area: Sustainability*
- GEOL 360 - Mineralogy and Optical Crystallography *Units: 4*
- GEOL 361 - Igneous and Metamorphic Petrology *Units: 4*
- GEOL 371 - Sedimentary Geology and Stratigraphy *Units: 4*
- GEOL 381 - Structural Geology *Units: 5*
- GEOL 397 - Advanced Field Experience *Units: 2*
- GEOL 398 - Internship *Units: 1-3*
- GEOL 410 - Geohealth *Units: 3*
- GEOL 414 - Hazardous Waste Management *Units: 3 ; G.E./G.R. Area: Sustainability*
- GEOL 431 - Applied Geophysics *Units: 4*
- GEOL 432 - Hydrogeology *Units: 4*
- GEOL 441 - Earthquake Geology *Units: 3*
- GEOL 490 - Independent Study *Units: 1-3*
- GEOL 497 - Issues in Geosciences *Units: 3*
- GEOL 499 - Capstone Seminar in Geosciences *Units: 3*

Geology: Graduate

- GEOL 601 - Professional Ethics in Environmental Geosciences *Units: 1*
- GEOL 602 - Graduate Seminar *Units: 2*
- GEOL 621 - Near Surface Geophysics *Units: 4*
- GEOL 622 - Seismic Exploration *Units: 4*
- GEOL 631 - Isotope Geochemistry *Units: 4*
- GEOL 632 - Groundwater Flow and Contaminant Transport *Units: 4*
- GEOL 633 - The Science of Soils *Units: 4*
- GEOL 634 - Biogeochemistry *Units: 4*
- GEOL 641 - Earthquake Geology *Units: 4*
- GEOL 643 - Tectonic Geomorphology *Units: 4*
- GEOL 644 - Structural Styles of Plate Margins and Regions *Units: 4*
- GEOL 645 - Engineering Geology *Units: 4*
- GEOL 646 - Quaternary Geology *Units: 4*
- GEOL 650 - Professional Certification Preparation *Units: 3*
- GEOL 671 - Field Experience *Units: 1-2*
- GEOL 690 - Independent Study *Units: 1-3*
- GEOL 691 - University Thesis *Units: 1-6*
- GEOL 693 - Project *Units: 1-2*

- • GEOL 697 - Issues in Geosciences *Units: 3*
- • GEOL 698 - Internship *Units: 1-3*

Geology, B.A.: Geoscience Education Concentration

Geology, B.A. Program (120 units)

Program Description

Geology is the study of the earth and of life and the natural processes occurring on the planet through time. Students learn about the causes of processes such as earthquakes, volcanoes, the formation of mountains, the effect of erosion and deposition, and the formation of rocks and minerals and their uses. Coursework combined with observations on field trips provide Cal State East Bay students with an understanding of natural processes and the human impact on the environment.

The Geology, B.A. program offers the student a greater degree of flexibility and may be more appropriate for those who do not plan to become certified professional geologists or pursue graduate study. (*Note: Transfer from the Geology, B.A. to the Geology, B.S. program or vice versa can be accomplished.*) Students wishing to do independent geological work professionally or plan on graduate study should enroll in the B.S. program; see the B.S. program in Geology in the Department of Earth and Environmental Sciences.

The Department of Earth and Environmental Sciences offers undergraduate study leading to the Bachelor of Science and Bachelor of Arts degrees in Geology, focusing on developing strong foundational knowledge and a broad set of field and laboratory skills in the Earth sciences.

The B.A. program is designed to prepare students for:

- Entry-level employment as geologists and environmental scientists in government (city, county, regional, state, and federal) and private consulting firms (environmental, engineering, and geotechnical firms, mining and oil companies, etc.).
- K-12 Earth Science Education.

The undergraduate Geology programs emphasize field and laboratory training. Many opportunities for field and laboratory research exist throughout northern California and elsewhere. Our B.S. and B.A. program reflects departmental expertise by focusing on near-surface processes, hazards and resources, and concentrates on issues of regional and local importance to our community. Rigorous coursework is augmented by embedded and sequential field experiences that integrate classroom concepts in natural laboratories. Seminars and topical courses address diverse subjects, for example: geochemical evolution of groundwater, natural tracers of geologic processes, tectonic geomorphology, earthquake hazards, bay area tectonics, near-surface geophysics, and modern depositional environments. We maintain strong connections with East Bay Regional Parks, the California Environmental Protection Agency, Lawrence Livermore National Laboratory, NASA Ames, the U.S. Geological Survey in Menlo Park, and SLAC National Accelerator Laboratory.

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Career Opportunities in Geology

Engineering

Geologist • Geochemist • Geologist • Geophysicist • Hydrologist • K-12

Education • Mineralogist • Oceanographer • Paleontologist • Park

Ranger • Petrologist • Seismologist • Soils Engineer • Stratigrapher

Geologist • Environmental

Earth

Science

Admission Requirements

There are four steps to the application process for most prospective students:

1. Applicants must submit an online CSU application for admission at <https://www2.calstate.edu/>.
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Program Learning Outcomes

Students graduating with a BS/BA in Geology will be able to:

Develop foundational knowledge in geologic materials, processes & time

1. Identify and classify geologic materials and know their material and/or biological properties or characteristics.
2. Recognize and understand the fundamental geological processes, distribution of natural resources, the magnitude and importance of geologic time, and its role in geologic processes and evolution.
3. Understand and apply basic principles of chemistry and physics to geologic issues.
4. Understand the fundamental principles and subjects that form the core topics of Earth Science.

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2. Collect, describe and organize samples of geologic materials in support of field investigations.
3. Create basic types of geologic maps with standard geology symbols, using standard field measurement techniques and equipment.
4. Perform basic types of geologic analysis, such as lithostratigraphic and biostratigraphic correlation, map construction, geophysical and hydrogeological studies, and cross-section construction.
5. Visualize and comprehend geological materials or structures in 3D based on 1D and 2D data sets.
6. Demonstrate competence in basic computer tools and software, and Internet utilization, and utilize appropriate software for geological analysis.

Integrate and analyze geologic information through synthesis & critical thinking

1. Interpret geological terrains (local & regional) by synthesis of literature, field and laboratory studies, to create maps, sections and reports that accurately and effectively illustrate the surficial distribution and 3D geometry of geologic materials and structures (rock, faults, geo-fluids, hazardous waste, etc.).
2. Access, critically read and critique research literature and geologic datasets (2D and 3D) using discipline-specific methods, techniques and equipment.

3. Analyze, interpret, and integrate diverse datasets to address and solve geological and scientific problems.

Develop oral and written communication, and collaborative skills

1. Critically analyze geological and environmental issues by evaluation of scientific literature, and then present their positions clearly and persuasively in written form through words, graphs, and tables, using appropriate formats.
2. Effectively communicate orally using prepared presentations.
3. Understand the importance of hearing, considering and integrating competing and/or contrary points of view to the scientific process.
4. Understand the complex issues and relationships that exist between local community and global needs for earth materials (fossil fuels, mineral reserves, water, etc.) and the effects of climate change on vulnerable populations
5. Work responsibly as a member of a team, demonstrate professional levels of conduct, and communicate effectively with team members through personal and electronic means.

Understand the impact of the Earth Sciences on local-to-global sustainability and their role as an ethical scientist

1. Understand Earth's place in the Universe, global-scale processes such as climate change, plate tectonics, earth systems interactions and rates, and the forcing factors/feedbacks that control them.
2. Have the breadth of education necessary to understand the importance of the Earth Sciences and technology in a global and societal context, and understand the effect of resource consumption on, and the importance of local-to-global-scale sustainability efforts.
3. Have knowledge of contemporary issues, such as sustainable resource development and the prediction of geological hazards.
4. Carry out responsibilities in a professional and ethical manner.

Degree Requirements Unit-Outline

- A baccalaureate of arts degree requires a total of 120 units:
 - The major requirements consists of 62 or 64 units
 - General Education (GE) & Graduation Requirements (GR) consists of 57 units;
 - Free Electives consists of 0-1 unit (*actual number of free elective units may depend on GE/GR units*).

Note: It may be possible to double-count units within the graduation requirements or that a course may satisfy both a graduation requirement and a major requirement. Students should contact their program and AACE advisors for information.

Geology (BA) Major Requirements (62-64 units)

Lower Division Core

The following 33 units of lower-division core coursework are required:

- CHEM 111 - General Chemistry I Units: 5 ; G.E./G.R. Area: B1, B3
- CHEM 112 - General Chemistry II Units: 5
- MATH 115 - College Algebra Units: 3 ; G.E./G.R. Area: B4
- PHYS 125 - Principles of Physics I Units: 4 ; G.E./G.R. Area: B1, B3
- PHYS 126 - Principles of Physics II Units: 4 ; G.E./G.R. Area: B1, B3
- GEOL 210 - Physical and Environmental Geology Units: 4 ; G.E./G.R. Area: B1, B3

- GEOL 211 - Historical Geology *Units: 4*
- GEOL 260 - Introduction to GIS in Earth and Environmental Sciences *Units: 3 ; G.E./G.R. Area: B1, B3*
- GEOL 297 - Introductory Field Experience *Units: 1*

Upper Division Core

The following 20 units of upper-division core coursework are required:

- GEOL 360 - Mineralogy and Optical Crystallography *Units: 4*
- GEOL 361 - Igneous and Metamorphic Petrology *Units: 4*
- GEOL 371 - Sedimentary Geology and Stratigraphy *Units: 4*
- GEOL 381 - Structural Geology *Units: 5*
- GEOL 499 - Capstone Seminar in Geosciences *Units: 3*

Geoscience Education Concentration

The BA degree with the optional Geoscience Education concentration for 11 units prepares pre-service teachers for the four content domains in K-12 Earth Science: Geology, Atmospheric Science, Ocean Sciences, and Planetary Science. In addition, these courses cover the content knowledge required to pass the Science CSET exams for credentialing; these exams are required to qualify for the Foundational Level Added Authorization in Science.

- GEOL 341 - General Oceanography *Units: 4*
- GEOL 342 - Planetary Geology *Units: 3*
- GEOL 343 - Atmospheric Science *Units: 3*
- SCI 308 - Hands-On Science Teaching *Units: 1*

Other Undergraduate Degree Requirements

In addition to major requirements, every student must also complete the University's baccalaureate requirements for graduation, which are described in the Requirements, Exams & Testing chapter of this catalog.

Department Courses Listed by Course Type

Earth and Environmental Sciences Courses

Department of Earth and Environmental Sciences

Go to information for this department.

Courses

Environmental Science

- ENSC 210 - Physical and Environmental Geology *Units: 4 ; G.E./G.R. Area: B1, B3*
- ENSC 211 - Historical Geology *Units: 4*
- ENSC 220 - Warming Planet, Rising Seas, and Global Change *Units: 3 ; G.E./G.R. Area: B1; Sustainability*
- ENSC 235 - Disasters on Earth and in Hollywood *Units: 3 ; G.E./G.R. Area: B1; Sustainability*
- ENSC 240 - Environmental Biology *Units: 3 ; G.E./G.R. Area: B2; Sustainability*
- ENSC 241 - Environmental Biology Laboratory *Units: 1 ; G.E./G.R. Area: B3*
- ENSC 250 - Oil, Water and Future Earth *Units: 3 ; G.E./G.R. Area: B1; Sustainability*
- ENSC 260 - Introduction to GIS in Earth and Environmental Sciences *Units: 3 ; G.E./G.R. Area: B1, B3*
- ENSC 280 - Humans and the Environment in California *Units: 3 ; G.E./G.R. Area: B1; Sustainability*
- ENSC 297 - Introductory Field Experience *Units: 1*
- ENSC 311 - Geomorphology *Units: 3*
- ENSC 320 - The Science of Global Change *Units: 3 ; G.E./G.R. Area: B6; Sustainability*
- ENSC 330 - Weather and the Atmosphere *Units: 3 ; G.E./G.R. Area: B6; Sustainability*
- ENSC 340 - The Oceans *Units: 3 ; G.E./G.R. Area: B6; Sustainability*
- ENSC 343 - Atmospheric Science *Units: 3*
- ENSC 350 - Environmental Hydrology *Units: 4 ; G.E./G.R. Area: Sustainability*
- ENSC 397 - Advanced Field Experience *Units: 2*
- ENSC 410 - Geohealth *Units: 3*
- ENSC 414 - Hazardous Waste Management *Units: 3 ; G.E./G.R. Area: Sustainability*
- ENSC 420 - Global Change *Units: 3 ; G.E./G.R. Area: Sustainability*
- ENSC 460 - Geographic Information Systems for Earth and Environmental Sciences *Units: 4*
- ENSC 490 - Independent Study *Units: 1-4*
- ENSC 497 - Special Topics and Issues in Environmental Sciences *Units: 3*
- ENSC 499 - Capstone Seminar in Geosciences *Units: 3*

Environmental Science: Graduate

- ENSC 601 - Professional Ethics in Environmental Geosciences *Units: 1*
- ENSC 631 - Isotope Geochemistry *Units: 4*
- ENSC 632 - Groundwater Flow and Contaminant Transport *Units: 4*
- ENSC 634 - Biogeochemistry *Units: 4*
- ENSC 671 - Field Experience *Units: 1-2*
- ENSC 698 - Internship *Units: 1-3*

Geology

- GEOL 100 - Earth Systems Science *Units: 4 ; G.E./G.R. Area: B1, B3; Sustainability*
- GEOL 101 - Introduction to the Earth Sciences *Units: 3 ; G.E./G.R. Area: B1; Sustainability*
- GEOL 102 - Earth Sciences Laboratory *Units: 1 ; G.E./G.R. Area: B3*
- GEOL 120 - Introduction to Oceanography *Units: 3 ; G.E./G.R. Area: B1; Sustainability*
- GEOL 210 - Physical and Environmental Geology *Units: 4 ; G.E./G.R. Area: B1, B3*
- GEOL 211 - Historical Geology *Units: 4*
- GEOL 230 - Natural Disasters *Units: 3 ; G.E./G.R. Area: B1; Sustainability*
- GEOL 231 - Natural Hazards *Units: 3*
- GEOL 235 - Disasters on Earth and in Hollywood *Units: 3 ; G.E./G.R. Area: B1; Sustainability*
- GEOL 260 - Introduction to GIS in Earth and Environmental Sciences *Units: 3 ; G.E./G.R. Area: B1, B3*
- GEOL 297 - Introductory Field Experience *Units: 1*
- GEOL 301 - Earth Science Connections *Units: 3*
- GEOL 302 - Earth Science Connections Laboratory *Units: 1*
- GEOL 310 - Geology of the Western National Parks *Units: 3 ; G.E./G.R. Area: B6*

- GEOL 311 - Geomorphology *Units: 3*
- GEOL 325 - Volcanoes and Plate Tectonics *Units: 3 ; G.E./G.R. Area: B6*
- GEOL 330 - Weather and the Atmosphere *Units: 3 ; G.E./G.R. Area: B6; Sustainability*
- GEOL 340 - The Oceans *Units: 3 ; G.E./G.R. Area: B6; Sustainability*
- GEOL 341 - General Oceanography *Units: 4*
- GEOL 342 - Planetary Geology *Units: 3*
- GEOL 343 - Atmospheric Science *Units: 3*
- GEOL 350 - Environmental Hydrology *Units: 4 ; G.E./G.R. Area: Sustainability*
- GEOL 360 - Mineralogy and Optical Crystallography *Units: 4*
- GEOL 361 - Igneous and Metamorphic Petrology *Units: 4*
- GEOL 371 - Sedimentary Geology and Stratigraphy *Units: 4*
- GEOL 381 - Structural Geology *Units: 5*
- GEOL 397 - Advanced Field Experience *Units: 2*
- GEOL 398 - Internship *Units: 1-3*
- GEOL 410 - Geohealth *Units: 3*
- GEOL 414 - Hazardous Waste Management *Units: 3 ; G.E./G.R. Area: Sustainability*
- GEOL 431 - Applied Geophysics *Units: 4*
- GEOL 432 - Hydrogeology *Units: 4*
- GEOL 441 - Earthquake Geology *Units: 3*
- GEOL 490 - Independent Study *Units: 1-3*
- GEOL 497 - Issues in Geosciences *Units: 3*
- GEOL 499 - Capstone Seminar in Geosciences *Units: 3*

Geology: Graduate

- GEOL 601 - Professional Ethics in Environmental Geosciences *Units: 1*
- GEOL 602 - Graduate Seminar *Units: 2*
- GEOL 621 - Near Surface Geophysics *Units: 4*
- GEOL 622 - Seismic Exploration *Units: 4*
- GEOL 631 - Isotope Geochemistry *Units: 4*
- GEOL 632 - Groundwater Flow and Contaminant Transport *Units: 4*
- GEOL 633 - The Science of Soils *Units: 4*
- GEOL 634 - Biogeochemistry *Units: 4*
- GEOL 641 - Earthquake Geology *Units: 4*
- GEOL 643 - Tectonic Geomorphology *Units: 4*
- GEOL 644 - Structural Styles of Plate Margins and Regions *Units: 4*
- GEOL 645 - Engineering Geology *Units: 4*
- GEOL 646 - Quaternary Geology *Units: 4*
- GEOL 650 - Professional Certification Preparation *Units: 3*
- GEOL 671 - Field Experience *Units: 1-2*
- GEOL 690 - Independent Study *Units: 1-3*
- GEOL 691 - University Thesis *Units: 1-6*
- GEOL 693 - Project *Units: 1-2*
- GEOL 697 - Issues in Geosciences *Units: 3*
- GEOL 698 - Internship *Units: 1-3*

Geology, B.S.

Geology, B.S. Program (120 units)

Program Description

Geology is the study of the earth and of life and the natural processes occurring on the planet through time. Students learn about the causes of processes such as earthquakes, volcanoes, the formation of mountains, the effect of erosion and deposition, and the formation of rocks and minerals and their uses. Coursework combined with observations on field trips provide Cal State East Bay students with an understanding of natural processes and the human impact on the environment.

The undergraduate degree programs consist of required courses plus electives designed to meet the needs of students with objectives including employment at the Bachelor's degree level, preparation for a secondary school teaching credential, and graduate study in Geology. The Geology, B.S. program is the primary professional degree program in Geology offered by the department, and serves as preparation for employment in the field, usually in a technical capacity. The Geology, B.A. program offers the student a greater degree of flexibility and may be more appropriate for those who do not necessarily plan to become professional geologists or pursue graduate study. (*Note: Students may be allowed to change from the Geology, B.A. to the Geology, B.S. program or vice versa.*) Students wishing to do independent geological work professionally should plan on graduate study; see the Environmental Geosciences, M.S. in the Department of Earth and Environmental Sciences.

The Department of Earth and Environmental Sciences offers undergraduate study leading to the Bachelor of Science and Bachelor of Arts degrees in Geology, focusing on developing strong foundational knowledge and a broad set of field and laboratory skills in the Earth sciences.

The Bachelor of Science (B.S.) program is designed to prepare students for:

- Entry-level employment as geologists and environmental scientists in government (city, county, regional, state, and federal) and private consulting firms (environmental, engineering, and geotechnical firms, mining and oil companies, etc.).
- Graduate study in environmental science, geology, geochemistry and geophysics.

The undergraduate Geology programs emphasize field and laboratory training. Many opportunities for field and laboratory research exist throughout northern California and elsewhere. The B.S. and B.A. programs in Geology reflect departmental expertise by focusing on near-surface processes and hazards and resources. They concentrate on issues of regional and local importance to our community. Rigorous coursework is augmented by embedded and sequential field experiences that integrate classroom concepts in natural laboratories. Seminars and topical courses address diverse subjects, for example: geochemical evolution of groundwater, natural tracers of geologic processes, tectonic geomorphology, earthquake hazards, bay area tectonics, near-surface geophysics, and modern depositional environments. The Department of earth and Environmental Sciences maintains strong connections with East Bay Regional Parks, the California Environmental Protection Agency, Lawrence Livermore National Laboratory, NASA Ames, the U.S. Geological Survey in Menlo Park, and SLAC National Accelerator Laboratory.

Students with strong records in the B.S. degree may be able to engage in guided, individual research, working with faculty on their research. Students wishing to pursue senior thesis should make contact with a faculty advisor at least one full semester in advance to discuss topic and feasibility.

The Earth & Environmental Science Club, a student-run organization, sponsors a variety of activities including guest speakers, field trips, employment workshops, and student-faculty gatherings. The club is an important part of department life, providing students with opportunities to make professional contacts, to explore graduate school and professional options, and to enjoy the company of others with similar interests.

Career Opportunities

Engineering Geologist • Environmental Geologist • Geochemist • Geologist • Geophysicist • Hydrologist • Mineralogist • Oceanographer • Park Ranger • Petrologist • Seismologist • Soils Engineer • Stratigrapher

Program Learning Outcomes

Students graduating with a B.S. or B.A. in Geology will be able to:

Develop foundational knowledge in geologic materials, processes & time

1. Identify and classify geologic materials and know their material and/or biological properties or characteristics.
2. Recognize and understand the fundamental geological processes, distribution of natural resources, the magnitude and importance of geologic time, and its role in geologic processes and evolution.
3. Understand and apply basic principles of chemistry and physics to geologic issues.
4. Understand the fundamental principles and subjects that form the core topics of Earth Science.

Develop fundamental geological field and laboratory skills and computer competence

1. Identify and classify, in the field, basic geologic materials, including minerals, rocks, fossils, structures, and landforms.
2. Collect, describe and organize samples of geologic materials in support of field investigations.
3. Create basic types of geologic maps with standard geology symbols, using standard field measurement techniques and equipment.
4. Perform basic types of geologic analysis, such as lithostratigraphic and biostratigraphic correlation, map construction, geophysical and hydrogeological studies, and cross-section construction.
5. Visualize and comprehend geological materials or structures in 3D based on 1D and 2D data sets.
6. Demonstrate competence in basic computer tools and software, and Internet utilization, and utilize appropriate software for geological analysis.

Integrate and analyze geologic information through synthesis & critical thinking

1. Interpret geological terrains (local & regional) by synthesis of literature, field and laboratory studies, to create maps, sections and reports that accurately and effectively illustrate the surficial distribution and 3D geometry of geologic materials and structures (rock, faults, geo-fluids, hazardous waste, etc.).
2. Access, critically read and critique research literature and geologic datasets (2D and 3D) using discipline-specific methods, techniques and equipment.
3. Analyze, interpret, and integrate diverse datasets to address and solve geological and scientific problems.

Develop oral and written communication, and collaborative skills

1. Critically analyze geological and environmental issues by evaluation of scientific literature, and then present their positions clearly and persuasively in written form through words, graphs, and tables, using appropriate formats.
2. Effectively communicate orally using prepared presentations.
3. Understand the importance of hearing, considering and integrating competing and/or contrary points of view to the scientific process.
4. Understand the complex issues and relationships that exist between local community and global needs for earth materials (fossil fuels, mineral reserves, water, etc.) and the effects of climate change on vulnerable populations
5. Work responsibly as a member of a team, demonstrate professional levels of conduct, and communicate effectively with team members through personal and electronic means.

Understand the impact of the Earth Sciences on local-to-global sustainability and their role as an ethical scientist

1. Understand Earth's place in the Universe, global-scale processes such as climate change, plate tectonics, earth systems interactions and rates, and the forcing factors/feedbacks that control them.
2. Have the breadth of education necessary to understand the importance of the Earth Sciences and technology in a global and societal context, and understands the effect of resource consumption on, and the importance of local-to-global-scale sustainability efforts.
3. Have knowledge of contemporary issues, such as sustainable resource development and the prediction of geological hazards.
4. Carry out responsibilities in a professional and ethical manner.

Degree Requirements Unit-Outline

- A baccalaureate of arts degree requires a total of 120 units:
 - The major requirements consists of 70-71 units
 - General Education (GE) & Graduation Requirements (GR) consists of 57 units;
 - Free Electives may consist of 0 units (*actual number of free elective units may depend on GE/GR units*).

Note: It may be possible to double-count units within the graduation requirements or that a course may satisfy both a graduation requirement and a major requirement. Students should contact their program and AACE advisors for information.

Geology (BS) Major Requirements (70-71 units)

Lower Division Core

The following 34-35 units of lower-division core coursework is required as outlined:

- CHEM 111 - General Chemistry I Units: 5 ; G.E./G.R. Area: B1, B3
 - CHEM 112 - General Chemistry II Units: 5
 - GEOL 210 - Physical and Environmental Geology Units: 4 ; G.E./G.R. Area: B1, B3
 - GEOL 211 - Historical Geology Units: 4
 - GEOL 297 - Introductory Field Experience Units: 1
 - MATH 130 - Calculus I Units: 4 ; G.E./G.R. Area: B4
- Plus choose one (1) group of three courses from the two groups below:
- GEOL 260 - Introduction to GIS in Earth and Environmental Sciences Units: 3 ; G.E./G.R. Area: B1, B3
 - PHYS 125 - Principles of Physics I Units: 4 ; G.E./G.R. Area: B1, B3
 - PHYS 126 - Principles of Physics II Units: 4 ; G.E./G.R. Area: B1, B3
- OR
- PHYS 135 - Physics for Scientists and Engineers I Units: 4 ; G.E./G.R. Area: B1, B3
 - PHYS 136 - Physics for Scientists and Engineers II Units: 4
 - PHYS 137 - Physics for Scientists and Engineers III Units: 4

Upper Division Core

The following 24 units of upper-division core coursework is required:

- GEOL 360 - Mineralogy and Optical Crystallography Units: 4

- GEOL 361 - Igneous and Metamorphic Petrology *Units: 4*
- GEOL 371 - Sedimentary Geology and Stratigraphy *Units: 4*
- GEOL 381 - Structural Geology *Units: 5*
- GEOL 397 - Advanced Field Experience *Units: 2 (course will be taken twice for a total of 4 units, but with different subject matter.)*
- GEOL 499 - Capstone Seminar in Geosciences *Units: 3*

Elective Courses

A minimum of 12 units of elective courses are required as outlined below:

One (1) of the following **Quantitative** courses is required for 3 units:

- CS 400 - Computer Programming for Science *Units: 3*
- CMGT 310 - Statics and Strength of Materials *Units: 3*
- MATH 131 - Calculus II *Units: 3*
- PHYS 330 - Analytic Mechanics *Units: 3*
- STAT 315 - Exploring and Analyzing Data *Units: 3*
- STAT 316 - Statistics and Probability for Science and Engineering *Units: 3*
- STAT 320 - Introduction to Probability Theory I *Units: 3*

Plus choose a **minimum of 9 units** of electives from the following * :

- ENSC 350 - Environmental Hydrology *Units: 4 ; G.E./G.R. Area: Sustainability*
- GEOL 311 - Geomorphology *Units: 3*
- GEOL 398 - Internship *Units: 1-3*
- ENSC 410 - Geohealth *Units: 3*
- GEOL 431 - Applied Geophysics *Units: 4*
- GEOL 432 - Hydrogeology *Units: 4*
- GEOL 441 - Earthquake Geology *Units: 3*
- GEOL 460 - Geographic Information Systems for Earth and Environmental Sciences *Units: 4*
- GEOL 490 - Independent Study *Units: 1-3*
- GEOL 497 - Issues in Geosciences *Units: 3*

***Only one (1) course from the following may apply to the above elective units:**

- GEOL 341 - General Oceanography *Units: 4*
- GEOL 342 - Planetary Geology *Units: 3*
- GEOL 343 - Atmospheric Science *Units: 3*

Other Undergraduate Degree Requirements

In addition to major requirements, every student must also complete the University's baccalaureate requirements for graduation, which are described in the Requirements, Exams & Testing chapter of this catalog.

Department Courses Listed by Course Type

Earth and Environmental Sciences Courses

Department of Earth and Environmental Sciences

Go to information for this department.

Courses

Environmental Science

- ENSC 210 - Physical and Environmental Geology *Units: 4 ; G.E./G.R. Area: B1, B3*
- ENSC 211 - Historical Geology *Units: 4*
- ENSC 220 - Warming Planet, Rising Seas, and Global Change *Units: 3 ; G.E./G.R. Area: B1;*
Sustainability
- ENSC 235 - Disasters on Earth and in Hollywood *Units: 3 ; G.E./G.R. Area: B1; Sustainability*
- ENSC 240 - Environmental Biology *Units: 3 ; G.E./G.R. Area: B2; Sustainability*
- ENSC 241 - Environmental Biology Laboratory *Units: 1 ; G.E./G.R. Area: B3*
- ENSC 250 - Oil, Water and Future Earth *Units: 3 ; G.E./G.R. Area: B1; Sustainability*
- ENSC 260 - Introduction to GIS in Earth and Environmental Sciences *Units: 3 ; G.E./G.R. Area:*
B1, B3
- ENSC 280 - Humans and the Environment in California *Units: 3 ; G.E./G.R. Area: B1;*
Sustainability
- ENSC 297 - Introductory Field Experience *Units: 1*
- ENSC 311 - Geomorphology *Units: 3*
- ENSC 320 - The Science of Global Change *Units: 3 ; G.E./G.R. Area: B6; Sustainability*
- ENSC 330 - Weather and the Atmosphere *Units: 3 ; G.E./G.R. Area: B6; Sustainability*
- ENSC 340 - The Oceans *Units: 3 ; G.E./G.R. Area: B6; Sustainability*
- ENSC 343 - Atmospheric Science *Units: 3*
- ENSC 350 - Environmental Hydrology *Units: 4 ; G.E./G.R. Area: Sustainability*
- ENSC 397 - Advanced Field Experience *Units: 2*
- ENSC 410 - Geohealth *Units: 3*
- ENSC 414 - Hazardous Waste Management *Units: 3 ; G.E./G.R. Area: Sustainability*
- ENSC 420 - Global Change *Units: 3 ; G.E./G.R. Area: Sustainability*
- ENSC 460 - Geographic Information Systems for Earth and Environmental Sciences *Units: 4*
- ENSC 490 - Independent Study *Units: 1-4*
- ENSC 497 - Special Topics and Issues in Environmental Sciences *Units: 3*
- ENSC 499 - Capstone Seminar in Geosciences *Units: 3*

Environmental Science: Graduate

- ENSC 601 - Professional Ethics in Environmental Geosciences *Units: 1*
- ENSC 631 - Isotope Geochemistry *Units: 4*
- ENSC 632 - Groundwater Flow and Contaminant Transport *Units: 4*
- ENSC 634 - Biogeochemistry *Units: 4*
- ENSC 671 - Field Experience *Units: 1-2*
- ENSC 698 - Internship *Units: 1-3*

Geology

- GEOL 100 - Earth Systems Science *Units: 4 ; G.E./G.R. Area: B1, B3; Sustainability*
- GEOL 101 - Introduction to the Earth Sciences *Units: 3 ; G.E./G.R. Area: B1; Sustainability*
- GEOL 102 - Earth Sciences Laboratory *Units: 1 ; G.E./G.R. Area: B3*
- GEOL 120 - Introduction to Oceanography *Units: 3 ; G.E./G.R. Area: B1; Sustainability*

- GEOL 210 - Physical and Environmental Geology *Units: 4 ; G.E./G.R. Area: B1, B3*
- GEOL 211 - Historical Geology *Units: 4*
- GEOL 230 - Natural Disasters *Units: 3 ; G.E./G.R. Area: B1; Sustainability*
- GEOL 231 - Natural Hazards *Units: 3*
- GEOL 235 - Disasters on Earth and in Hollywood *Units: 3 ; G.E./G.R. Area: B1; Sustainability*
- GEOL 260 - Introduction to GIS in Earth and Environmental Sciences *Units: 3 ; G.E./G.R. Area:*

B1, B3

- GEOL 297 - Introductory Field Experience *Units: 1*
- GEOL 301 - Earth Science Connections *Units: 3*
- GEOL 302 - Earth Science Connections Laboratory *Units: 1*
- GEOL 310 - Geology of the Western National Parks *Units: 3 ; G.E./G.R. Area: B6*
- GEOL 311 - Geomorphology *Units: 3*
- GEOL 325 - Volcanoes and Plate Tectonics *Units: 3 ; G.E./G.R. Area: B6*
- GEOL 330 - Weather and the Atmosphere *Units: 3 ; G.E./G.R. Area: B6; Sustainability*
- GEOL 340 - The Oceans *Units: 3 ; G.E./G.R. Area: B6; Sustainability*
- GEOL 341 - General Oceanography *Units: 4*
- GEOL 342 - Planetary Geology *Units: 3*
- GEOL 343 - Atmospheric Science *Units: 3*
- GEOL 350 - Environmental Hydrology *Units: 4 ; G.E./G.R. Area: Sustainability*
- GEOL 360 - Mineralogy and Optical Crystallography *Units: 4*
- GEOL 361 - Igneous and Metamorphic Petrology *Units: 4*
- GEOL 371 - Sedimentary Geology and Stratigraphy *Units: 4*
- GEOL 381 - Structural Geology *Units: 5*
- GEOL 397 - Advanced Field Experience *Units: 2*
- GEOL 398 - Internship *Units: 1-3*
- GEOL 410 - Geohealth *Units: 3*
- GEOL 414 - Hazardous Waste Management *Units: 3 ; G.E./G.R. Area: Sustainability*
- GEOL 431 - Applied Geophysics *Units: 4*
- GEOL 432 - Hydrogeology *Units: 4*
- GEOL 441 - Earthquake Geology *Units: 3*
- GEOL 490 - Independent Study *Units: 1-3*
- GEOL 497 - Issues in Geosciences *Units: 3*
- GEOL 499 - Capstone Seminar in Geosciences *Units: 3*

Geology: Graduate

- GEOL 601 - Professional Ethics in Environmental Geosciences *Units: 1*
- GEOL 602 - Graduate Seminar *Units: 2*
- GEOL 621 - Near Surface Geophysics *Units: 4*
- GEOL 622 - Seismic Exploration *Units: 4*
- GEOL 631 - Isotope Geochemistry *Units: 4*
- GEOL 632 - Groundwater Flow and Contaminant Transport *Units: 4*
- GEOL 633 - The Science of Soils *Units: 4*
- GEOL 634 - Biogeochemistry *Units: 4*
- GEOL 641 - Earthquake Geology *Units: 4*
- GEOL 643 - Tectonic Geomorphology *Units: 4*
- GEOL 644 - Structural Styles of Plate Margins and Regions *Units: 4*
- GEOL 645 - Engineering Geology *Units: 4*
- GEOL 646 - Quaternary Geology *Units: 4*
- GEOL 650 - Professional Certification Preparation *Units: 3*
- GEOL 671 - Field Experience *Units: 1-2*
- GEOL 690 - Independent Study *Units: 1-3*

- • GEOL 691 - University Thesis *Units: 1-6*
- • GEOL 693 - Project *Units: 1-2*
- • GEOL 697 - Issues in Geosciences *Units: 3*
- • GEOL 698 - Internship *Units: 1-3*

Master

Environmental Geosciences, M.S.

Environmental Geosciences, M.S. Program

Program Description

The Department of Earth and Environmental Sciences offers graduate study leading to the Master of Science degree in Environmental Geosciences, focusing on near surface and environmental geology, seismic hazards and Bay Area tectonics, and water and soil characterization and remediation.

This program is designed to prepare students for:

1. employment as geologists and environmental scientists in government (city, county, regional, state, and federal) and private consulting firms (environmental, engineering, and geotechnical firms, mining and oil companies, etc.);
2. professional licensing requirements;
3. doctoral study in environmental science, geology, geochemistry, and geophysics; and
4. teaching at the Community College level

The department also provides continuing education for professional geologists, engineers, planners, etc.

Our M.S. program is unique in the bay area in that many courses are offered in the evenings, and augmented by field experiences. Graduate seminars address diverse subjects; for example, geochemical evolution of groundwater, natural tracers of geologic processes, tectonic geomorphology, earthquake hazards, bay area tectonics, near-surface geophysics, and modern depositional environments. We maintain strong connections with East Bay Regional Parks, the California Environmental Protection Agency, Lawrence Livermore National Laboratory, NASA Ames, the U.S. Geological Survey in Menlo Park, and SLAC National Accelerator Laboratory.

Candidates for the M.S. degree will engage in significant, guided, individual research. Recent M.S. thesis and project research topics include near surface geophysics, groundwater dating, groundwater nitrate source identification, local catchment characterization, surface water-groundwater interaction, geologic mapping, slope stability, geochemistry, Bay Area structural geology, engineering geology, and neotectonics. Prospective candidates should determine whether their research interests coincide with those of the faculty members before applying to the program. We invite interested persons to contact the department faculty directly for more details on the program. The Graduate Coordinator provides guidance that enables students to complete the requirements for advancement in the graduate program.

Career Opportunities

1. Scientist for federal, state, or local regulatory, governmental, or research agency
2. Project leader, geologist, or hydrogeologist at environmental consulting company
3. Geologist or geophysicist for energy company

4. Instructor at community college
5. Engineering geologist for consulting company or regulatory agency
6. Research scientist at National Laboratory

Admission Requirements

The M.S. degree program is open to any student in possession of a baccalaureate degree in Geology, Environmental Science, or a closely related field, with coursework substantially equivalent to the core requirements for the B.S. degree in Geology or Environmental Science at CSU East Bay. Students who do not meet those requirements will be considered on an individual basis and accepted only after approval by a majority of regular faculty members.

Students may be admitted with "Conditionally Classified Graduate" until the qualifications listed under "Classified Graduate" status below are satisfied.

Applicants must have a GPA of at least 2.75 in all undergraduate work. Any undergraduate core course with a "D" grade will have to be repeated. Students transferring from another graduate program must have a GPA of at least 3.0 in all graduate geology or environmental science courses. (No more than 12 units may be transferred.)

Applications must be accompanied by two letters of recommendation from faculty members or work supervisors.

Student Standing and Progress Toward the Degree

Conditionally Classified Graduate Status

Students who are otherwise qualified but have course deficiencies and/or have not satisfied the University Writing Skills requirement, will be accepted as "Conditionally Classified Graduate" students. Course deficiencies may be removed by enrolling on either a "CR/NC" or graded basis.

Classified Graduate Status

Students who fulfill all the requirements for admission to the program will be accorded "Classified Graduate" status once they have satisfied the University Writing Skills requirement. All deficiencies have to be removed, and the University Writing Skills requirement satisfied no later than the completion of 12 units of coursework applicable to the degree or the student may be disqualified.

Selection of Thesis/Project or Academic Advisor

Students should meet with an academic advisor upon enrollment. Students will choose a thesis or project advisor based on their area of interest and faculty availability. Students should contact a prospective research advisor prior to applying but research topics may change during the first year when the focus is on coursework.

Advancement to Candidacy

In order to be Advanced to Candidacy, the student must have:

1. been accorded "Classified Graduate" status

2. been assigned a thesis or graduate project advisor; and
3. submitted to the department an acceptable Prospectus describing the thesis research or graduate project work to be attempted (guidelines for preparation of the Prospectus may be obtained from the department office). The research topic must be approved in advance by the advisor.

Program Learning Outcomes

Students graduating with an M.S. in Environmental Geosciences will:

Demonstrate advanced knowledge of geologic materials, processes & time (Knowledge)

1. Recognize and understand the fundamental geological processes, complex system interactions, distribution of natural resources, the magnitude and importance of geologic time, and its role in geologic processes and evolution.
 2. Understand and apply principles of chemistry and physics to geologic and environmental issues.
 3. Understand the fundamental principles and subjects that form the core topics of Earth Science.
- Demonstrate proficiency in geological and environmental field, computing and laboratory applications (Synthesis)

1. Can identify and classify, in the field, basic geologic materials, including minerals, rocks, fossils, structures, and landforms.
 2. Can collect, describe and organize samples of geologic and environmental materials in support of field investigations.
 3. Can create basic types of geologic maps with standard geology symbols, using standard field measurement techniques and equipment.
 4. Can perform basic types of geologic analysis, such as lithostratigraphic and biostratigraphic correlation, map construction, geophysical and hydrogeological studies, and cross-section construction.
 5. Can visualize and comprehend geological materials or structures in 3D based on 1D and 2D data sets.
 6. Is competent in basic computer tools and software, and Internet utilization, and can utilize appropriate software for geological and environmental analysis.
- Perform original research by integration and analysis of geologic and environmental information and data sets (Research)

1. Can interpret geological terrains (local & regional) by synthesis of literature, field and laboratory studies, to create maps, sections and reports that accurately and effectively illustrate the surficial distribution and 3D geometry of geologic materials and structures (rock, faults, geo-fluids, hazardous waste, etc.).
 2. Can access, critically read and critique research literature and geologic datasets (2D and 3D) using discipline-specific methods, techniques and equipment.
 3. Can analyze, interpret, and integrate diverse datasets to address and solve geological and scientific problems.
- Demonstrate skills in effective oral and written communication in multiple contexts, including collaborative work and professional settings (Communication)

1. Can effectively communicate orally using prepared presentations at the professional meeting level
2. Understands the importance of hearing, considering and integrating competing and/or contrary points of view to the scientific process.
3. Can work responsibly as a member of a team, demonstrate professional levels of conduct, and communicate effectively with team members through personal and electronic means.

Participate in an ethical community of scientists who recognize the importance of sustainability, the role of science in society, and the value of life-long learning (Global)

1. Understands Earth's place in the Universe, global-scale processes such as climate change, plate tectonics, earth systems interactions and rates, and the forcing factors/feedbacks that control them.
2. Has the breadth of education necessary to understand the importance of the Earth Sciences and technology in a global and societal context, and understands the effect of resource consumption on, and the importance of local-to-global-scale sustainability efforts.
3. Applies knowledge of contemporary issues, such as sustainable resource development and the prediction of geological hazards.
4. Carries out responsibilities in a professional and ethical manner.

Degree Requirements

- Advancement to Candidacy
- Satisfaction of university requirements described in the Graduate Degree Requirements, Policies, & Other Information chapter in this catalog. These include the 22-unit residence requirement, the five-year rule on currency of subject matter, the minimum number of units of 600-level courses, the 3.00 GPA, and the University Writing Skills requirement. For information on meeting the University Writing Skills Requirement, see the Testing Office website at www.csueastbay.edu/testing.
- Completion of the 31-32 unit study plan outlined below.
- Completion and defense of the University Thesis or completion (and defense, as required by the department) of the graduate Project.

Environmental Geosciences Degree Requirements (31 units)

Core Courses

A total of 15 units of core coursework is required as outlined:

The following 3 units are required:

- GEOL 601 - Professional Ethics in Environmental Geosciences *Units: 1*
- GEOL 602 - Graduate Seminar *Units: 2*

Plus, one (1) course chosen from this group is required for 4 units:

- GEOL 621 - Near Surface Geophysics *Units: 4*
- GEOL 622 - Seismic Exploration *Units: 4*
- GEOL 641 - Earthquake Geology *Units: 4*

Plus, one (1) course chosen from this group is required for 4 units:

- ENSC 634 - Biogeochemistry *Units: 4*
- GEOL 631 - Isotope Geochemistry *Units: 4*
- GEOL 633 - The Science of Soils *Units: 4*
- GEOL 646 - Quaternary Geology *Units: 4*

And, one (1) course chosen from this group is required for 4 units:

- GEOL 632 - Groundwater Flow and Contaminant Transport *Units: 4*
- GEOL 643 - Tectonic Geomorphology *Units: 4*

- GEOL 644 - Structural Styles of Plate Margins and Regions *Units: 4*
- GEOL 645 - Engineering Geology *Units: 4*

Elective Courses

Students who will complete their degree with a *Thesis* (see capstone requirements) must complete **10 elective units** chosen from the coursework outlined below.

Students who will complete their degree with a *Project* (see capstone requirements) must complete **14 elective units** chosen from the coursework outlined below.

- Any 600-level GEOL course listed in the core that has NOT already been taken.
- GEOL 602 - Graduate Seminar *Units: 2 (course may be repeated for a maximum of 4 units)*
- GEOL 650 - Professional Certification Preparation *Units: 3*
- GEOL 671 - Field Experience *Units: 1-2*
- GEOL 690 - Independent Study *Units: 1-3*
- Up to 9 units may be in approved courses from other STEM disciplines.

Capstone Requirements

Students must choose one (1) of the following capstone courses to complete their degree:

University Thesis (must be taken for a total of 6 units)

Students choosing the Thesis capstone experience must submit to the Thesis Committee, and defend orally, an acceptable University Thesis. The University Thesis is a formal paper reporting the results of original research. This research normally involves modeling, field, and/or laboratory investigation. The thesis is submitted to the university in the format specified in the "University Thesis Writing Guide," www.csueastbay.edu/thesiswritingguide. The Thesis Committee comprises the faculty thesis advisor plus either (1) two other faculty members from the Department of Earth and Environmental Sciences or other appropriate California State University East Bay faculty, or (2) one other faculty member from the department and one or more qualified individuals from outside the university.

Graduate Project (must be taken for a total of 2 units)

Students choosing the Project capstone experience must submit to the department an abstract and acceptable graduate project (for example: manuscript, map, computer model, education module). An oral defense may be required.

- GEOL 691 - University Thesis *Units: 1-6*
Note: Students may not register for more than 50% of the total units prior to starting the writing of their thesis.
- GEOL 693 - Project *Units: 1-2*

Other Graduate & Post-Baccalaureate Degree Requirements

In addition to departmental requirements, every student must also satisfy the University requirements for graduation as described throughout this catalog. These include the 70% unit residence requirement; the

five-year rule on currency of subject matter; the minimum number of units in 600-level courses; the "C" minimum grade for each graduate course; the 3.00 cumulative grade point average; and the University Writing Skills Requirement.

Note: For information on meeting the University Writing Skills Requirement, see the Testing Office website at www.csueastbay.edu/testing or call (510) 885-3661.

Department Courses Listed by Course Type

Earth and Environmental Sciences Courses

Department of Earth and Environmental Sciences

Go to information for this department.

Courses

Environmental Science

- ENSC 210 - Physical and Environmental Geology *Units: 4 ; G.E./G.R. Area: B1, B3*
 - ENSC 211 - Historical Geology *Units: 4*
 - ENSC 220 - Warming Planet, Rising Seas, and Global Change *Units: 3 ; G.E./G.R. Area: B1; Sustainability*
 - ENSC 235 - Disasters on Earth and in Hollywood *Units: 3 ; G.E./G.R. Area: B1; Sustainability*
 - ENSC 240 - Environmental Biology *Units: 3 ; G.E./G.R. Area: B2; Sustainability*
 - ENSC 241 - Environmental Biology Laboratory *Units: 1 ; G.E./G.R. Area: B3*
 - ENSC 250 - Oil, Water and Future Earth *Units: 3 ; G.E./G.R. Area: B1; Sustainability*
 - ENSC 260 - Introduction to GIS in Earth and Environmental Sciences *Units: 3 ; G.E./G.R. Area: B1, B3*
 - ENSC 280 - Humans and the Environment in California *Units: 3 ; G.E./G.R. Area: B1; Sustainability*
 - ENSC 297 - Introductory Field Experience *Units: 1*
 - ENSC 311 - Geomorphology *Units: 3*
 - ENSC 320 - The Science of Global Change *Units: 3 ; G.E./G.R. Area: B6; Sustainability*
 - ENSC 330 - Weather and the Atmosphere *Units: 3 ; G.E./G.R. Area: B6; Sustainability*
 - ENSC 340 - The Oceans *Units: 3 ; G.E./G.R. Area: B6; Sustainability*
 - ENSC 343 - Atmospheric Science *Units: 3*
 - ENSC 350 - Environmental Hydrology *Units: 4 ; G.E./G.R. Area: Sustainability*
 - ENSC 397 - Advanced Field Experience *Units: 2*
 - ENSC 410 - Geohealth *Units: 3*
 - ENSC 414 - Hazardous Waste Management *Units: 3 ; G.E./G.R. Area: Sustainability*
 - ENSC 420 - Global Change *Units: 3 ; G.E./G.R. Area: Sustainability*
 - ENSC 460 - Geographic Information Systems for Earth and Environmental Sciences *Units: 4*
 - ENSC 490 - Independent Study *Units: 1-4*
 - ENSC 497 - Special Topics and Issues in Environmental Sciences *Units: 3*
 - ENSC 499 - Capstone Seminar in Geosciences *Units: 3*
- Environmental Science: Graduate**
- ENSC 601 - Professional Ethics in Environmental Geosciences *Units: 1*
 - ENSC 631 - Isotope Geochemistry *Units: 4*

- ENSC 632 - Groundwater Flow and Contaminant Transport *Units: 4*
- ENSC 634 - Biogeochemistry *Units: 4*
- ENSC 671 - Field Experience *Units: 1-2*
- ENSC 698 - Internship *Units: 1-3*

Geology

- GEOL 100 - Earth Systems Science *Units: 4 ; G.E./G.R. Area: B1, B3; Sustainability*
- GEOL 101 - Introduction to the Earth Sciences *Units: 3 ; G.E./G.R. Area: B1; Sustainability*
- GEOL 102 - Earth Sciences Laboratory *Units: 1 ; G.E./G.R. Area: B3*
- GEOL 120 - Introduction to Oceanography *Units: 3 ; G.E./G.R. Area: B1; Sustainability*
- GEOL 210 - Physical and Environmental Geology *Units: 4 ; G.E./G.R. Area: B1, B3*
- GEOL 211 - Historical Geology *Units: 4*
- GEOL 230 - Natural Disasters *Units: 3 ; G.E./G.R. Area: B1; Sustainability*
- GEOL 231 - Natural Hazards *Units: 3*
- GEOL 235 - Disasters on Earth and in Hollywood *Units: 3 ; G.E./G.R. Area: B1; Sustainability*
- GEOL 260 - Introduction to GIS in Earth and Environmental Sciences *Units: 3 ; G.E./G.R. Area:*

B1, B3

- GEOL 297 - Introductory Field Experience *Units: 1*
- GEOL 301 - Earth Science Connections *Units: 3*
- GEOL 302 - Earth Science Connections Laboratory *Units: 1*
- GEOL 310 - Geology of the Western National Parks *Units: 3 ; G.E./G.R. Area: B6*
- GEOL 311 - Geomorphology *Units: 3*
- GEOL 325 - Volcanoes and Plate Tectonics *Units: 3 ; G.E./G.R. Area: B6*
- GEOL 330 - Weather and the Atmosphere *Units: 3 ; G.E./G.R. Area: B6; Sustainability*
- GEOL 340 - The Oceans *Units: 3 ; G.E./G.R. Area: B6; Sustainability*
- GEOL 341 - General Oceanography *Units: 4*
- GEOL 342 - Planetary Geology *Units: 3*
- GEOL 343 - Atmospheric Science *Units: 3*
- GEOL 350 - Environmental Hydrology *Units: 4 ; G.E./G.R. Area: Sustainability*
- GEOL 360 - Mineralogy and Optical Crystallography *Units: 4*
- GEOL 361 - Igneous and Metamorphic Petrology *Units: 4*
- GEOL 371 - Sedimentary Geology and Stratigraphy *Units: 4*
- GEOL 381 - Structural Geology *Units: 5*
- GEOL 397 - Advanced Field Experience *Units: 2*
- GEOL 398 - Internship *Units: 1-3*
- GEOL 410 - Geohealth *Units: 3*
- GEOL 414 - Hazardous Waste Management *Units: 3 ; G.E./G.R. Area: Sustainability*
- GEOL 431 - Applied Geophysics *Units: 4*
- GEOL 432 - Hydrogeology *Units: 4*
- GEOL 441 - Earthquake Geology *Units: 3*
- GEOL 490 - Independent Study *Units: 1-3*
- GEOL 497 - Issues in Geosciences *Units: 3*
- GEOL 499 - Capstone Seminar in Geosciences *Units: 3*

Geology: Graduate

- GEOL 601 - Professional Ethics in Environmental Geosciences *Units: 1*
- GEOL 602 - Graduate Seminar *Units: 2*
- GEOL 621 - Near Surface Geophysics *Units: 4*
- GEOL 622 - Seismic Exploration *Units: 4*
- GEOL 631 - Isotope Geochemistry *Units: 4*
- GEOL 632 - Groundwater Flow and Contaminant Transport *Units: 4*

- GEOL 633 - The Science of Soils *Units: 4*
- GEOL 634 - Biogeochemistry *Units: 4*
- GEOL 641 - Earthquake Geology *Units: 4*
- GEOL 643 - Tectonic Geomorphology *Units: 4*
- GEOL 644 - Structural Styles of Plate Margins and Regions *Units: 4*
- GEOL 645 - Engineering Geology *Units: 4*
- GEOL 646 - Quaternary Geology *Units: 4*
- GEOL 650 - Professional Certification Preparation *Units: 3*
- GEOL 671 - Field Experience *Units: 1-2*
- GEOL 690 - Independent Study *Units: 1-3*
- GEOL 691 - University Thesis *Units: 1-6*
- GEOL 693 - Project *Units: 1-2*
- GEOL 697 - Issues in Geosciences *Units: 3*
- GEOL 698 - Internship *Units: 1-3*

Minor

Geology Minor

Minor Requirements (21 units)

Lower Division (9 units)

- GEOL 210 - Physical and Environmental Geology *Units: 4 ; G.E./G.R. Area: B1, B3*
- GEOL 211 - Historical Geology *Units: 4*
- GEOL 297 - Introductory Field Experience *Units: 1*

Upper Division Electives (12 units minimum)

- ENSC 350 - Environmental Hydrology *Units: 4 ; G.E./G.R. Area: Sustainability*
- GEOL 311 - Geomorphology *Units: 3*
- GEOL 341 - General Oceanography *Units: 4*
- GEOL 342 - Planetary Geology *Units: 3*
- GEOL 343 - Atmospheric Science *Units: 3*
- GEOL 360 - Mineralogy and Optical Crystallography *Units: 4*
- GEOL 361 - Igneous and Metamorphic Petrology *Units: 4*
- GEOL 371 - Sedimentary Geology and Stratigraphy *Units: 4*
- GEOL 381 - Structural Geology *Units: 5*
- GEOL 431 - Applied Geophysics *Units: 4*
- GEOL 432 - Hydrogeology *Units: 4*
- GEOL 441 - Earthquake Geology *Units: 3*
- GEOL 460 - Geographic Information Systems for Earth and Environmental Sciences *Units: 4*
- GEOL 497 - Issues in Geosciences *Units: 3*
- GEOL 499 - Capstone Seminar in Geosciences *Units: 3*

Department of Economics

The Department Office is located on the 4th floor of the VBT building, Room 442.

Hours Open: 8:00 am to 5:00 pm Monday through Friday.

Dept. Phone: 510-885-3265

Faculty

Professors Emeriti

James C. W. Ahiakpor, Ph.D. University of Toronto (Canada)

Gregory B. Christainsen, Ph.D. University of Wisconsin, Madison

Professor

Jed DeVaro (Chair), Ph.D. Stanford University

Associate Professors

Ryan Lampe, Ph.D. Stanford University

Christian Roessler, Ph.D. The University of Melbourne (Australia)

Assistant Professors

Wesley Blundell, Ph.D., University of Arizona

Kai Ding, Ph.D. University of Minnesota

Joseph Kuehn, Ph.D. University of California, Los Angeles

Filippo Rebessi, Ph.D. University of Minnesota

Jung You, Ph.D. Rice University

M.A. Program Director: *Christian Roessler*

Mission Statement

We are proud of our diverse body of students and our vibrant undergraduate and graduate programs in Economics and Business. Our faculty hold PhDs from leading universities and have diverse backgrounds, teaching and research interests. In addition to receiving numerous grants and publishing in major academic journals in Economics, members of our faculty receive consistently high teaching evaluations,

and some have been recognized with teaching awards. They also have made intellectual contributions via publications in books and textbooks of general interest, conferences and media presentations, and studies regarding local community issues, as well as refereeing for a variety of academic journals and in some cases serving as editors or on editorial boards. Department faculty currently head the Smith Center for Private Enterprise Studies and the Center for Economic Education. Our scenic campus is geographically located in one of the most dynamic technological, scientific and cultural hubs in the world.

About the Department

Use our university website link to learn more about what the Economics Department has to offer.

- Degree Roadmaps
- Faculty & Staff
- Course Student Learning Outcomes
- News
- Centers and Institutes
- Office Hours & Teaching Schedule
- And more...

Bachelor

Business Administration, B.S.: Business Economics Concentration

Business Administration, B.S. Program (120 units)

Program Description

The College of Business and Economics, which offers the Bachelor of Science in Business Administration (B.S.B.A.) program, is committed to providing life-changing, quality business education to prepare students from diverse backgrounds to become successful business professionals and leaders. The B.S.B.A. program imparts students with the knowledge and skills necessary to understand the changing global business environment and to prepare students for success in their professional careers.

The B.S.B.A. major program is structured around a set of core courses enabling students to develop general business perspective and skills. Students are required to choose an area of specialization, i.e., concentration, corresponding to their desired career path. In addition, the program allows students flexibility to customize their specialization by choosing business elective courses. These electives may be chosen to further strengthen their preparation in their chosen concentration.

The undergraduate and the graduate programs in the College of Business and Economics are accredited by the Association to Advance Collegiate Schools of Business International (AACSB).

Program Learning Outcomes

Students graduating with a Bachelor of Science in Business Administration will be able to:

- Recognize and integrate foundation knowledge across functional areas.
- Apply critical thinking skills to solve business problems.

- Understand and apply quantitative methods and tools in evaluating business problems and making effective business decisions.
- Apply technology to analyze data and provide solutions to business problems.
- Apply effective oral communication skills in a diverse and global environment.
- Apply effective written communication skills in a diverse and global environment.
- Apply effective team skills to work in a diverse and global environment.
- Identify and assess ethical issues and properly articulate ethical decisions.

Expiration of Courses

Upper division major/concentration requirement courses will expire ten years after completion of the term in which they are earned. Expired courses cannot be used to fulfill degree requirements and must be replaced by current credits. Requests for waivers of the ten-year limit for extenuating circumstances, other than mere failure to register, are made to the department chair in which the course resides and the director of undergraduate programs.

Transfer of Courses

Upper division courses will only be considered for equivalency or transfer credit if they are from AACSB accredited institutions. Exceptions will be made for programs that have current and signed agreements with the College of Business and Economics.

Degree Requirements

The B.S. degree requires a total of 120 units. In addition to General Education courses and other graduation requirements, the Business Administration major requires three sets of courses: (I) lower division core courses, (II) upper division core courses, and (III) courses to fulfill concentration requirements.

Degree Requirements Unit-Outline

- A baccalaureate of science degree requires a total of 120 units:
 - The major requirements consists of 75 units;
 - General Education (GE) & Graduation Requirements (GR) consists of 57 units;
 - Free Electives may consist of 0 units (*actual number of free elective units may depend on GE/GR units*).

Note: It may be possible to double-count units within the graduation requirements or that a course may satisfy both a graduation requirement and a major requirement. Students should contact their program and AACE advisors for information.

Business Administration Major Requirements (75 units)

Note: Please see the Errata pages for corrections made to the major requirements effective for all concentrations.

Lower Division Core Courses

The following 18 units of lower-division coursework are required:

- ACCT 210 - Introduction to Financial Accounting *Units: 3*
- ACCT 215 - Introduction to Managerial Accounting *Units: 3*
- ECON 200 - Principles of Microeconomics *Units: 3 ; G.E./G.R. Area: D1-3; Social Justice*
- ECON 205 - Principles of Macroeconomics *Units: 3 ; G.E./G.R. Area: D1-3*
- MATH 180 - Mathematics for Business with Calculus *Units: 3 ; G.E./G.R. Area: B4*
- STAT 110 - Elements of Statistics for Business and Economics *Units: 3*

Upper Division Core Courses

The following 27 units of upper-division coursework is required:

- BUS 310 - Organizational Behavior *Units: 3*
- BUS 325 - Marketing Principles *Units: 3*
- BUS 330 - Financial Management *Units: 3*
- BUS 335 - Communications in Team Building *Units: 3*
- BUS 360 - Operations Management *Units: 3*
- BUS 499 - Seminar in Strategic Business Management *Units: 3*
- ECON 380 - Managerial Economics and Business Strategy *Units: 3 ; G.E./G.R. Area: B6; Sustainability*
- MGMT 350 - Decision Science *Units: 3 ; G.E./G.R. Area: B6*

Plus, choose one (1) course from the following:

- BUS 385 - International Business *Units: 3 OR*
- ECON 385 - Global Economic Analysis *Units: 3 Recommended for Business Economics concentration students*

Concentration Requirements

Students must select one (1) of the following concentrations for 30 units:

- Business Administration, B.S.: Accounting Concentration
- Business Administration, B.S.: Business Economics Concentration
- Business Administration, B.S.: Entrepreneurship Concentration
- Business Administration, B.S.: Finance Concentration (Available Online)
- Business Administration, B.S.: General Management Concentration (Available Online)
- Business Administration, B.S.: Human Resources Management & Organizational Behavior Concentration
- Business Administration, B.S.: Information Technology Management Concentration (Available Online)
- Business Administration, B.S.: Marketing Management Concentration
- Business Administration, B.S.: Operations and Supply Chain Management Concentration (Available Online)

Business Economics Concentration

The coursework in the Business Economics concentration focuses on the economic aspects of business decision-making. The coursework emphasizes forecasting product demand, setting product prices, estimating production costs, calculating firm profitability, evaluating investment alternatives, and assessing the effects of government regulations and industry competition on firm performance and strategy. Students selecting this concentration will be prepared for careers in banking, finance, economic forecasting, and business economics. The concentration also provides an excellent background for graduate training in economics and business.

Note: Students in this concentration are encouraged to take ECON 385 instead of BUS 385 as part of their required shared-core coursework.

Required Courses

The following 24 units are required:

- BUS 220 - Legal Environment of Business *Units: 3 ; G.E./G.R. Area: D1-3; Social Justice*
- BUS 320 - Business and Professional Ethics *Units: 3*
- BUS 340 - Information Technology Management *Units: 3*
- BUS 370 - Business, Government and Society *Units: 3*
- ECON 210 - Quantitative Methods for Economists *Units: 3*
- ECON 306 - Money, Banking, & Financial Intermediaries *Units: 3 ; G.E./G.R. Area: D4*
- ECON 310 - Introduction to Econometrics *Units: 3*
- ECON 400 - Game Theory *Units: 3*

Elective Courses

Select two (2) courses for 6 units from the following list:

- ECON 305 - Macroeconomic Theory *Units: 3*
- ECON 334 - Economics of Information and Organizations *Units: 3*
- ECON 370 - Health Economics and Public Policy *Units: 3*
- ECON 430 - Introduction to Industrial Organization *Units: 3*
- ECON 431 - Economics of Innovation & Intellectual Property *Units: 3*
- ECON 433 - Introduction to Labor Economics *Units: 3*
- ECON 497 - Special Topics in Economic Analysis *Units: 3*

Other Undergraduate Degree Requirements

In addition to major requirements, every student must also complete the University's baccalaureate requirements for graduation, which are described in the Requirements, Exams & Testing chapter of this catalog.

Department Courses Listed by Course Type

Economics Courses

Department of Economics

Go to information for this department.

Courses

Economics

- ECON 100 - Economics of Public Issues *Units: 3 ; G.E./G.R. Area: D1-3*
- ECON 101 - US Economic History and Institutions *Units: 3 ; G.E./G.R. Area: D1-3; US-1, US-2*
- ECON 102 - California Economic History and Institutions *Units: 3 ; G.E./G.R. Area: D1-3*
- ECON 103 - Economics of Creative Industries *Units: 3 ; G.E./G.R. Area: D1-3*
- ECON 105 - Corporate Misconduct: Crimes, Crashes, Crises *Units: 3 ; G.E./G.R. Area: D1-3*
- ECON 106 - Urban Policy, Social Justice, and the Environment *Units: 3 ; G.E./G.R. Area: D1-3*
- ECON 200 - Principles of Microeconomics *Units: 3 ; G.E./G.R. Area: D1-3; Social Justice*
- ECON 205 - Principles of Macroeconomics *Units: 3 ; G.E./G.R. Area: D1-3*
- ECON 210 - Quantitative Methods for Economists *Units: 3*
- ECON 211 - Programming for Data Analysts *Units: 3*
- ECON 300 - Microeconomic Theory I *Units: 3*
- ECON 301 - Microeconomic Theory II *Units: 3*
- ECON 305 - Macroeconomic Theory *Units: 3*
- ECON 306 - Money, Banking, & Financial Intermediaries *Units: 3 ; G.E./G.R. Area: D4*
- ECON 310 - Introduction to Econometrics *Units: 3*
- ECON 320 - History of Economic Thought *Units: 3*
- ECON 334 - Economics of Information and Organizations *Units: 3*
- ECON 335 - Introduction to Urban Economics *Units: 3*
- ECON 337 - Sports Economics *Units: 3 ; G.E./G.R. Area: D4*
- ECON 350 - International Economics *Units: 3*
- ECON 360 - Environmental Economics *Units: 3*
- ECON 370 - Health Economics and Public Policy *Units: 3*
- ECON 380 - Managerial Economics and Business Strategy *Units: 3 ; G.E./G.R. Area: B6;*

Sustainability

- ECON 383 - Game-Theoretic Reasoning: The Science of Interactive Behavior *Units: 3 ; G.E./G.R. Area: B6*
- ECON 385 - Global Economic Analysis *Units: 3*
- ECON 397 - Issues in Economic Analysis *Units: 3*
- ECON 398 - Internship *Units: 1-3*
- ECON 400 - Game Theory *Units: 3*
- ECON 430 - Introduction to Industrial Organization *Units: 3*
- ECON 431 - Economics of Innovation & Intellectual Property *Units: 3*
- ECON 433 - Introduction to Labor Economics *Units: 3*
- ECON 456 - Introduction to Monetary Theory *Units: 3*
- ECON 460 - Introduction to Public Economics *Units: 3*
- ECON 490 - Independent Study *Units: 1-4*
- ECON 497 - Special Topics in Economic Analysis *Units: 3*
- ECON 499 - Capstone: Empirical Analysis *Units: 3*

Economics: Graduate

- BUS 606 - Managerial Economics *Units: 3*
- ECON 600 - Foundations of Economic Theory *Units: 4*
- ECON 601 - Advanced Microeconomics *Units: 4*

- • ECON 605 - Advanced Macroeconomics *Units: 4*
- • ECON 610 - Advanced Econometrics *Units: 4*
- • ECON 623 - Market Design *Units: 4*
- • ECON 625 - Urban Economics *Units: 4*
- • ECON 627 - Personnel Economics *Units: 4*
- • ECON 636 - Monetary Theory *Units: 4*
- • ECON 640 - Public Economics *Units: 4*
- • ECON 647 - International Economic Development *Units: 4*
- • ECON 660 - Industrial Organization *Units: 4*
- • ECON 661 - Strategic Pricing *Units: 4*
- • ECON 665 - Corporate Governance & Entrepreneurship *Units: 4*
- • ECON 667 - Project Analysis *Units: 4*
- • ECON 670 - Economic Research Practices *Units: 4*
- • ECON 688 - Applied Data Analysis *Units: 3*
- • ECON 690 - Independent Study *Units: 1-4*
- • ECON 693 - Project *Units: 1*
- • ECON 697 - Advanced Topics in Economics *Units: 4*
- • ECON 698 - Internship *Units: 1-3*

Economics, B.S.

Economics, B.S. Program (120 units)

Program Description:

The BS in Economics trains students in the tools of economic analysis and exposes them to a great breadth of areas in which those tools can be used to tackle problems, including international trade and finance, labor markets, industry structure, firms' business strategy and competition, public policy and management, the environment, health care, economic development and income inequality, corporate governance and entrepreneurship, money markets and Federal Reserve policy, and law. The program provides rigorous analytical training and quantitative and programming skills that equip students to correctly formulate (and solve) complex problems in the preceding areas and in the daily decision-making and financial planning of their everyday lives. Economics students learn techniques for critically analyzing and correctly evaluating key issues in public policy, and those skills can also be applied outside the public sector (e.g., to business).

Career Opportunities:

As an economics training is highly valued by employers, the program prepares students for a broad variety of careers including those in business, law, banking and insurance, government, consulting, journalism, teaching, research, and starting a business.

Program Learning Outcomes:

Students graduating with a Bachelor of Science in Economics will be able to:

- Formulate mathematical models to solve microeconomic problems.
- Formulate mathematical models to solve macroeconomic problems.
- Analyze research data using modern statistical software packages.

- Construct coherent economic policy arguments, grounded in economic theory.

Degree Requirements Unit-Outline

- A baccalaureate of science degree requires a total of 120 units:
 - The major requirements consists of 60 units;
 - General Education (GE) & Graduation Requirements (GR) consists of 57 units;
 - Free Electives may consist of 3 units (*actual number of fee elective units may depend on GE/GR units*).

Note: It may be possible to double-count units within the graduation requirements or that a course may satisfy both a graduation requirement and a major requirement. Students should contact their program and AACE advisors for information.

Economics Major Requirements (60 units)

Lower Division Core

Students are required to take the following seven (7) courses for 21 units.

Note: MATH 180 can be substituted with MATH 130. STAT 100 can be substituted with STAT 110. ECON 211 can be substituted with CS 100 or CS 101.

- MATH 115 - College Algebra Units: 3 ; G.E./G.R. Area: B4
- MATH 180 - Mathematics for Business with Calculus Units: 3 ; G.E./G.R. Area: B4
- STAT 100 - Elements of Statistics and Probability Units: 3 ; G.E./G.R. Area: B4
- ECON 200 - Principles of Microeconomics Units: 3 ; G.E./G.R. Area: D1-3; Social Justice
- ECON 205 - Principles of Macroeconomics Units: 3 ; G.E./G.R. Area: D1-3
- ECON 210 - Quantitative Methods for Economists Units: 3
- ECON 211 - Programming for Data Analysts Units: 3

Upper Division Core

Students are required to take the following seven (7) courses for 21 units:

- ECON 300 - Microeconomic Theory I Units: 3
- ECON 301 - Microeconomic Theory II Units: 3
- ECON 305 - Macroeconomic Theory Units: 3
- ECON 306 - Money, Banking, & Financial Intermediaries Units: 3 ; G.E./G.R. Area: D4
- ECON 310 - Introduction to Econometrics Units: 3
- ECON 400 - Game Theory Units: 3
- ECON 499 - Capstone: Empirical Analysis Units: 3

Elective Courses

Choose six (6) courses for 18 units from the following list:

- ECON 320 - History of Economic Thought *Units: 3*
- ECON 334 - Economics of Information and Organizations *Units: 3*
- ECON 335 - Introduction to Urban Economics *Units: 3*
- ECON 337 - Sports Economics *Units: 3 ; G.E./G.R. Area: D4*
- ECON 350 - International Economics *Units: 3*
- ECON 360 - Environmental Economics *Units: 3*
- ECON 370 - Health Economics and Public Policy *Units: 3*
- ECON 385 - Global Economic Analysis *Units: 3*
- ECON 397 - Issues in Economic Analysis *Units: 3*
- ECON 430 - Introduction to Industrial Organization *Units: 3*
- ECON 431 - Economics of Innovation & Intellectual Property *Units: 3*
- ECON 433 - Introduction to Labor Economics *Units: 3*
- ECON 456 - Introduction to Monetary Theory *Units: 3*
- ECON 460 - Introduction to Public Economics *Units: 3*
- ECON 497 - Special Topics in Economic Analysis *Units: 3*

Other Undergraduate Degree Requirements

In addition to major requirements, every student must also complete the University's baccalaureate requirements for graduation, which are described in the Requirements, Exams & Testing chapter of this catalog.

Department Courses Listed by Course Type

Economics Courses

Department of Economics

Go to information for this department.

Courses

Economics

- • ECON 100 - Economics of Public Issues *Units: 3 ; G.E./G.R. Area: D1-3*
- • ECON 101 - US Economic History and Institutions *Units: 3 ; G.E./G.R. Area: D1-3; US-1, US-2*
- • ECON 102 - California Economic History and Institutions *Units: 3 ; G.E./G.R. Area: D1-3*
- • ECON 103 - Economics of Creative Industries *Units: 3 ; G.E./G.R. Area: D1-3*
- • ECON 105 - Corporate Misconduct: Crimes, Crashes, Crises *Units: 3 ; G.E./G.R. Area: D1-3*
- • ECON 106 - Urban Policy, Social Justice, and the Environment *Units: 3 ; G.E./G.R. Area: D1-3*
- • ECON 200 - Principles of Microeconomics *Units: 3 ; G.E./G.R. Area: D1-3; Social Justice*
- • ECON 205 - Principles of Macroeconomics *Units: 3 ; G.E./G.R. Area: D1-3*
- • ECON 210 - Quantitative Methods for Economists *Units: 3*
- • ECON 211 - Programming for Data Analysts *Units: 3*
- • ECON 300 - Microeconomic Theory I *Units: 3*
- • ECON 301 - Microeconomic Theory II *Units: 3*

- ECON 305 - Macroeconomic Theory *Units: 3*
- ECON 306 - Money, Banking, & Financial Intermediaries *Units: 3 ; G.E./G.R. Area: D4*
- ECON 310 - Introduction to Econometrics *Units: 3*
- ECON 320 - History of Economic Thought *Units: 3*
- ECON 334 - Economics of Information and Organizations *Units: 3*
- ECON 335 - Introduction to Urban Economics *Units: 3*
- ECON 337 - Sports Economics *Units: 3 ; G.E./G.R. Area: D4*
- ECON 350 - International Economics *Units: 3*
- ECON 360 - Environmental Economics *Units: 3*
- ECON 370 - Health Economics and Public Policy *Units: 3*
- ECON 380 - Managerial Economics and Business Strategy *Units: 3 ; G.E./G.R. Area: B6;*

Sustainability

- ECON 383 - Game-Theoretic Reasoning: The Science of Interactive Behavior *Units: 3 ; G.E./G.R. Area: B6*
- ECON 385 - Global Economic Analysis *Units: 3*
- ECON 397 - Issues in Economic Analysis *Units: 3*
- ECON 398 - Internship *Units: 1-3*
- ECON 400 - Game Theory *Units: 3*
- ECON 430 - Introduction to Industrial Organization *Units: 3*
- ECON 431 - Economics of Innovation & Intellectual Property *Units: 3*
- ECON 433 - Introduction to Labor Economics *Units: 3*
- ECON 456 - Introduction to Monetary Theory *Units: 3*
- ECON 460 - Introduction to Public Economics *Units: 3*
- ECON 490 - Independent Study *Units: 1-4*
- ECON 497 - Special Topics in Economic Analysis *Units: 3*
- ECON 499 - Capstone: Empirical Analysis *Units: 3*

Economics: Graduate

- BUS 606 - Managerial Economics *Units: 3*
- ECON 600 - Foundations of Economic Theory *Units: 4*
- ECON 601 - Advanced Microeconomics *Units: 4*
- ECON 605 - Advanced Macroeconomics *Units: 4*
- ECON 610 - Advanced Econometrics *Units: 4*
- ECON 623 - Market Design *Units: 4*
- ECON 625 - Urban Economics *Units: 4*
- ECON 627 - Personnel Economics *Units: 4*
- ECON 636 - Monetary Theory *Units: 4*
- ECON 640 - Public Economics *Units: 4*
- ECON 647 - International Economic Development *Units: 4*
- ECON 660 - Industrial Organization *Units: 4*
- ECON 661 - Strategic Pricing *Units: 4*
- ECON 665 - Corporate Governance & Entrepreneurship *Units: 4*
- ECON 667 - Project Analysis *Units: 4*
- ECON 670 - Economic Research Practices *Units: 4*
- ECON 688 - Applied Data Analysis *Units: 3*
- ECON 690 - Independent Study *Units: 1-4*
- ECON 693 - Project *Units: 1*
- ECON 697 - Advanced Topics in Economics *Units: 4*
- ECON 698 - Internship *Units: 1-3*

Master

Economics, M.S.: General Economics Concentration

Economics, M.S. Program

Program Description:

The MS in Economics combines a thorough grounding in modern economic theory with training in applied skills, informed by data analysis. It is the integration of all these elements that is powerful and distinctive; students not only master statistical methods and programming but, crucially, learn to interpret findings through the lens of economic theory. The program enables students to identify optimal actions in a variety of contexts, anticipate economic consequences, evaluate the effects of policy changes, understand strategic behavior, and explain and predict market outcomes. Students are prepared for a range of analytical careers through their quantitative skills: an ability to mathematically model and solve complex business and policy problems, as well as an advanced command of statistical tools. They may go on to work in corporate finance and banking, marketing research, consulting, public and non-governmental organization (NGO) administration, research, or teaching. Students declare one (and only one) concentration. The Quantitative Business Modeling concentration permits students to gain exposure to finance, marketing, and business analytics that is valuable in corporate careers, through selected courses in CBE's business programs. The General Economics concentration is geared to advisory professions, the public sector, or PhD programs.

Career Opportunities:

Typical career destinations for professional economists are:

Corporate Finance and Banking • Marketing Research • Consulting • Public and Non-governmental Organization (NGO) Administration • Research • Teaching

Admission Requirements:

To be considered for admission, students must hold a baccalaureate degree from an accredited college or university and have a grade point average of 2.75 or better over the last 90 quarter units or 60 semester units of their undergraduate program. A student who does not meet the grade point requirements may be admitted at the discretion of the department pending receipt of other evidence of the student's academic achievement.

International students must show English proficiency by posting an official TOEFL score of 580 or above (237 on the Computer-Based TOEFL), or by posting an official transcript showing graduation with a bachelor's degree from a U.S. college or university, or an international college or university where English is the principal language of instruction, or by an official letter from the college or university certifying that English was the language of instruction.

Students enrolling in the program are expected to have completed the equivalent of MATH 180 and ECON 210 (quantitative methods for economists) or a two-course sequence in calculus; STAT 100 or equivalent; and at least one course in intermediate micro-economics and one course in intermediate macro-economics. Students who have not completed the Economics prerequisites must demonstrate competency and promise for quantitative graduate work in other ways to the satisfaction of the Program Director and the Department Chair.

Classification in the Program

There are three levels of advancement for students within the M.S. program: "Conditionally Classified Graduate" standing, "Classified Graduate" standing, and "Advancement to Candidacy."

Conditionally Classified Graduate Standing

A student who has been admitted to a graduate degree program but who has not satisfied all prerequisite coursework or other requirements such as the University Writing Skills Requirement is a "Conditionally Classified Graduate" student. A student may be admitted to a graduate degree program as a "Conditionally Classified" graduate student upon:

1. submission of a written application, with required supporting documents, to the Admissions Office declaring an intent to pursue the M.S. degree in Economics;
2. acceptance by the department; and
3. completion of other appropriate requirements as specified in the Admission/Graduate chapter in this catalog.

Classified Graduate Standing

A student who has been admitted to the M.S. program by meeting the requirements established in item 1 above; has fulfilled all prerequisite coursework and other requirements such as the University Writing Skills Requirement (UWSR); and has a strong background in economics may begin as a "Classified Graduate" student. Students admitted into the program but lacking such background will be designated as "Conditionally Classified Graduate" students until deficiencies are made up and they are recommended for "Classified Graduate" standing by the department. The student must have satisfied the University Writing Skills Requirement (UWSR) to become a "Classified Graduate" student. For information on meeting the University Writing Skills Requirement, see the Testing Office website at www.csueastbay.edu/testing or call 510.885.3661.

Advancement to Candidacy

To be Advanced to Candidacy in the M.S. program a student must:

1. be a "Classified Graduate" student in good standing;
2. have filed an approved program of study with the department;
3. have completed at least 8 semester units in Economics, considered applicable by the department toward the M.S. degree requirements, in residence at Cal State East Bay; and
4. have been recommended for Advancement to Candidacy by the department.

Requirements for Graduation

To be eligible for the M.S. degree in economics a student must:

- have been Advanced to Candidacy
- have completed at least 32 semester units of graduate work as indicated in (C) below, of which:
 - all must have been earned within the five years just preceding the completion of the requirements for the degree;
 - not fewer than 24 units must have been completed in residence;

- all units must have been in Economics courses in the 600-699 series or approved courses in the QBM concentration as specified below, unless an exception is granted by the Program Director in writing;
- each course must have a grade of "C" or better and all 32 or more units must result in at least a 3.00 GPA;
- have completed a satisfactory program of study (16 units of core classes and at least 12 units in one of two concentrations) as approved by the department and the graduate coordinator. (See required courses in the Major Requirements section of this catalog.)

Program Learning Outcomes

Students graduating with a Master in Science in Economics will be able to:

1. Generate solutions to economic optimization problems under constraints.
2. Construct equilibria in models of strategic behavior.
3. Identify and apply appropriate empirical techniques for estimation problems.
4. Estimate models informed by economic theory using specialized software for data analysis.

Economics Degree Requirements (32 units)

Core Courses

The following 16 units are required:

- ECON 600 - Foundations of Economic Theory *Units: 4*
- ECON 601 - Advanced Microeconomics *Units: 4*
- ECON 605 - Advanced Macroeconomics *Units: 4*
- ECON 610 - Advanced Econometrics *Units: 4*

Concentrations

Students must select one (1) of the following concentrations for 12 units to fulfill the program requirements:

- Economics, M.S.: General Economics Concentration
- Economics, M.S.: Quantitative Business Modeling Concentration

IMPORTANT: It is not possible for one student to take both concentrations, General Economics requires a special research course that is *only* open to students in that concentration. If a student takes this class for credit, he or she is in General Economics; if not, then he or she is in Quantitative Business Modeling (QBM) and must complete electives from the QBM list.

Capstone Requirements

The following 4 units are required to complete the program requirements:

- ECON 688 - Applied Data Analysis *Units: 3*
- ECON 693 - Project *Units: 1*

General Economics Concentration

Twelve (12) units are required to fulfill this concentration.

Required Course

The following course for 4 units is required:

- **ECON 670 - Economic Research Practices** *Units: 4*

Elective Courses

Choose two (2) courses for 8 units from the following:

- **ECON 623 - Market Design** *Units: 4*
- **ECON 625 - Urban Economics** *Units: 4*
- **ECON 627 - Personnel Economics** *Units: 4*
- **ECON 636 - Monetary Theory** *Units: 4*
- **ECON 640 - Public Economics** *Units: 4*
- **ECON 647 - International Economic Development** *Units: 4*
- **ECON 660 - Industrial Organization** *Units: 4*
- **ECON 661 - Strategic Pricing** *Units: 4*
- **ECON 665 - Corporate Governance & Entrepreneurship** *Units: 4*
- **ECON 667 - Project Analysis** *Units: 4*
- **ECON 697 - Advanced Topics in Economics** *Units: 4*

Other Graduate & Post-Baccalaureate Degree Requirements

In addition to departmental requirements, every student must also satisfy the University requirements for graduation as described throughout this catalog. These include the 70% unit residence requirement; the five-year rule on currency of subject matter; the minimum number of units in 600-level courses; the "C" minimum grade for each graduate course; the 3.00 cumulative grade point average; and the University Writing Skills Requirement.

Note: For information on meeting the University Writing Skills Requirement, see the Testing Office website at www.csueastbay.edu/testing or call (510) 885-3661.

Department Courses Listed by Course Type

Economics Courses

Department of Economics

Go to information for this department.

Courses

Economics

- ECON 100 - Economics of Public Issues *Units: 3 ; G.E./G.R. Area: D1-3*
- ECON 101 - US Economic History and Institutions *Units: 3 ; G.E./G.R. Area: D1-3; US-1, US-2*
- ECON 102 - California Economic History and Institutions *Units: 3 ; G.E./G.R. Area: D1-3*
- ECON 103 - Economics of Creative Industries *Units: 3 ; G.E./G.R. Area: D1-3*
- ECON 105 - Corporate Misconduct: Crimes, Crashes, Crises *Units: 3 ; G.E./G.R. Area: D1-3*
- ECON 106 - Urban Policy, Social Justice, and the Environment *Units: 3 ; G.E./G.R. Area: D1-3*
- ECON 200 - Principles of Microeconomics *Units: 3 ; G.E./G.R. Area: D1-3; Social Justice*
- ECON 205 - Principles of Macroeconomics *Units: 3 ; G.E./G.R. Area: D1-3*
- ECON 210 - Quantitative Methods for Economists *Units: 3*
- ECON 211 - Programming for Data Analysts *Units: 3*
- ECON 300 - Microeconomic Theory I *Units: 3*
- ECON 301 - Microeconomic Theory II *Units: 3*
- ECON 305 - Macroeconomic Theory *Units: 3*
- ECON 306 - Money, Banking, & Financial Intermediaries *Units: 3 ; G.E./G.R. Area: D4*
- ECON 310 - Introduction to Econometrics *Units: 3*
- ECON 320 - History of Economic Thought *Units: 3*
- ECON 334 - Economics of Information and Organizations *Units: 3*
- ECON 335 - Introduction to Urban Economics *Units: 3*
- ECON 337 - Sports Economics *Units: 3 ; G.E./G.R. Area: D4*
- ECON 350 - International Economics *Units: 3*
- ECON 360 - Environmental Economics *Units: 3*
- ECON 370 - Health Economics and Public Policy *Units: 3*
- ECON 380 - Managerial Economics and Business Strategy *Units: 3 ; G.E./G.R. Area: B6;*

Sustainability

- ECON 383 - Game-Theoretic Reasoning: The Science of Interactive Behavior *Units: 3 ; G.E./G.R. Area: B6*
- ECON 385 - Global Economic Analysis *Units: 3*
- ECON 397 - Issues in Economic Analysis *Units: 3*
- ECON 398 - Internship *Units: 1-3*
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- ECON 460 - Introduction to Public Economics *Units: 3*
- ECON 490 - Independent Study *Units: 1-4*
- ECON 497 - Special Topics in Economic Analysis *Units: 3*
- ECON 499 - Capstone: Empirical Analysis *Units: 3*

Economics: Graduate

- BUS 606 - Managerial Economics *Units: 3*
- ECON 600 - Foundations of Economic Theory *Units: 4*
- ECON 601 - Advanced Microeconomics *Units: 4*
- ECON 605 - Advanced Macroeconomics *Units: 4*
- ECON 610 - Advanced Econometrics *Units: 4*
- ECON 623 - Market Design *Units: 4*
- ECON 625 - Urban Economics *Units: 4*
- ECON 627 - Personnel Economics *Units: 4*
- ECON 636 - Monetary Theory *Units: 4*
- ECON 640 - Public Economics *Units: 4*

- • ECON 647 - International Economic Development *Units: 4*
- • ECON 660 - Industrial Organization *Units: 4*
- • ECON 661 - Strategic Pricing *Units: 4*
- • ECON 665 - Corporate Governance & Entrepreneurship *Units: 4*
- • ECON 667 - Project Analysis *Units: 4*
- • ECON 670 - Economic Research Practices *Units: 4*
- • ECON 688 - Applied Data Analysis *Units: 3*
- • ECON 690 - Independent Study *Units: 1-4*
- • ECON 693 - Project *Units: 1*
- • ECON 697 - Advanced Topics in Economics *Units: 4*
- • ECON 698 - Internship *Units: 1-3*

Economics, M.S.: Quantitative Business Modeling Concentration

Economics, M.S. Program

Program Description:

The MS in Economics combines a thorough grounding in modern economic theory with training in applied skills, informed by data analysis. It is the integration of all these elements that is powerful and distinctive; students not only master statistical methods and programming but, crucially, learn to interpret findings through the lens of economic theory. The program enables students to identify optimal actions in a variety of contexts, anticipate economic consequences, evaluate the effects of policy changes, understand strategic behavior, and explain and predict market outcomes. Students are prepared for a range of analytical careers through their quantitative skills: an ability to mathematically model and solve complex business and policy problems, as well as an advanced command of statistical tools. They may go on to work in corporate finance and banking, marketing research, consulting, public and non-governmental organization (NGO) administration, research, or teaching. Students declare one (and only one) concentration. The Quantitative Business Modeling concentration permits students to gain exposure to finance, marketing, and business analytics that is valuable in corporate careers, through selected courses in CBE's business programs. The General Economics concentration is geared to advisory professions, the public sector, or PhD programs.

Career Opportunities:

Typical career destinations for professional economists are:

Corporate Finance and Banking • Marketing Research • Consulting • Public and Non-governmental Organization (NGO) Administration • Research • Teaching

Admission Requirements:

To be considered for admission, students must hold a baccalaureate degree from an accredited college or university and have a grade point average of 2.75 or better over the last 90 quarter units or 60 semester units of their undergraduate program. A student who does not meet the grade point requirements may be admitted at the discretion of the department pending receipt of other evidence of the student's academic achievement.

International students must show English proficiency by posting an official TOEFL score of 580 or above (237 on the Computer-Based TOEFL), or by posting an official transcript showing graduation with a bachelor's degree from a U.S. college or university, or an international college or university where English is the principal language of instruction, or by an official letter from the college or university certifying that English was the language of instruction.

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Classification in the Program

There are three levels of advancement for students within the M.S. program: "Conditionally Classified Graduate" standing, "Classified Graduate" standing, and "Advancement to Candidacy."

Conditionally Classified Graduate Standing

A student who has been admitted to a graduate degree program but who has not satisfied all prerequisite coursework or other requirements such as the University Writing Skills Requirement is a "Conditionally Classified Graduate" student. A student may be admitted to a graduate degree program as a "Conditionally Classified" graduate student upon:

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2. acceptance by the department; and
3. completion of other appropriate requirements as specified in the Admission/Graduate chapter in this catalog.

Classified Graduate Standing

A student who has been admitted to the M.S. program by meeting the requirements established in item 1 above; has fulfilled all prerequisite coursework and other requirements such as the University Writing Skills Requirement (UWSR); and has a strong background in economics may begin as a "Classified Graduate" student. Students admitted into the program but lacking such background will be designated as "Conditionally Classified Graduate" students until deficiencies are made up and they are recommended for "Classified Graduate" standing by the department. The student must have satisfied the University Writing Skills Requirement (UWSR) to become a "Classified Graduate" student. For information on meeting the University Writing Skills Requirement, see the Testing Office website at www.csueastbay.edu/testing or call 510.885.3661.

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To be Advanced to Candidacy in the M.S. program a student must:

1. be a "Classified Graduate" student in good standing;
2. have filed an approved program of study with the department;
3. have completed at least 8 semester units in Economics, considered applicable by the department toward the M.S. degree requirements, in residence at Cal State East Bay; and

4. have been recommended for Advancement to Candidacy by the department.

Requirements for Graduation

To be eligible for the M.S. degree in economics a student must:

- have been Advanced to Candidacy
- have completed at least 32 semester units of graduate work as indicated in (C) below, of which:
 - all must have been earned within the five years just preceding the completion of the requirements for the degree;
 - not fewer than 24 units must have been completed in residence;
 - all units must have been in Economics courses in the 600-699 series or approved courses in the QBM concentration as specified below, unless an exception is granted by the Program Director in writing;
 - each course must have a grade of "C" or better and all 32 or more units must result in at least a 3.00 GPA;
- have completed a satisfactory program of study (16 units of core classes and at least 12 units in one of two concentrations) as approved by the department and the graduate coordinator. (See required courses in the Major Requirements section of this catalog.)

Program Learning Outcomes

Students graduating with a Master in Science in Economics will be able to:

1. Generate solutions to economic optimization problems under constraints.
2. Construct equilibria in models of strategic behavior.
3. Identify and apply appropriate empirical techniques for estimation problems.
4. Estimate models informed by economic theory using specialized software for data analysis.

Economics Degree Requirements (32 units)

Core Courses

The following 16 units are required:

- ECON 600 - Foundations of Economic Theory *Units: 4*
- ECON 601 - Advanced Microeconomics *Units: 4*
- ECON 605 - Advanced Macroeconomics *Units: 4*
- ECON 610 - Advanced Econometrics *Units: 4*

Concentrations

Students must select one (1) of the following concentrations for 12 units to fulfill the program requirements:

- Economics, M.S.: General Economics Concentration
- Economics, M.S.: Quantitative Business Modeling Concentration

IMPORTANT: It is not possible for one student to take both concentrations, General Economics requires a special research course that is *only* open to students in that concentration. If a student takes this

class for credit, he or she is in General Economics; if not, then he or she is in Quantitative Business Modeling (QBM) and must complete electives from the QBM list.

Capstone Requirements

The following 4 units are required to complete the program requirements:

- ECON 688 - Applied Data Analysis *Units: 3*
- ECON 693 - Project *Units: 1*

Quantitative Business Modeling Concentration

Students must complete a minimum of 12 units to fulfill the concentration requirements.

Elective Courses

At least one (1) course, chosen from the list below, must have a prefix other than ECON when completing the minimum 12 unit requirement for this concentration.

Please note: elective courses from the list below may contain one or more prerequisite classes that must be completed before enrollment.

- BAN 612 - Data Analytics *Units: 3*
- BAN 620 - Data Mining *Units: 3*
- BAN 630 - Optimization Methods for Analytics *Units: 3*
- ECON 660 - Industrial Organization *Units: 4*
- ECON 661 - Strategic Pricing *Units: 4*
- ECON 665 - Corporate Governance & Entrepreneurship *Units: 4*
- ECON 667 - Project Analysis *Units: 4*
- FIN 620 - Seminar in Security Analysis and Portfolio Management *Units: 3*
- FIN 630 - Seminar in Options and Futures *Units: 3*
- MKTG 610 - Marketing Research *Units: 3*
- MKTG 612 - Marketing Analytics *Units: 3*

Other Graduate & Post-Baccalaureate Degree Requirements

In addition to departmental requirements, every student must also satisfy the University requirements for graduation as described throughout this catalog. These include the 70% unit residence requirement; the five-year rule on currency of subject matter; the minimum number of units in 600-level courses; the "C" minimum grade for each graduate course; the 3.00 cumulative grade point average; and the University Writing Skills Requirement.

Note: For information on meeting the University Writing Skills Requirement, see the Testing Office website at www.csueastbay.edu/testing or call (510) 885-3661.

Department Courses Listed by Course Type

Economics Courses

Department of Economics

Go to information for this department.

Courses

Economics

- ECON 100 - Economics of Public Issues *Units: 3 ; G.E./G.R. Area: D1-3*
- ECON 101 - US Economic History and Institutions *Units: 3 ; G.E./G.R. Area: D1-3; US-1, US-2*
- ECON 102 - California Economic History and Institutions *Units: 3 ; G.E./G.R. Area: D1-3*
- ECON 103 - Economics of Creative Industries *Units: 3 ; G.E./G.R. Area: D1-3*
- ECON 105 - Corporate Misconduct: Crimes, Crashes, Crises *Units: 3 ; G.E./G.R. Area: D1-3*
- ECON 106 - Urban Policy, Social Justice, and the Environment *Units: 3 ; G.E./G.R. Area: D1-3*
- ECON 200 - Principles of Microeconomics *Units: 3 ; G.E./G.R. Area: D1-3; Social Justice*
- ECON 205 - Principles of Macroeconomics *Units: 3 ; G.E./G.R. Area: D1-3*
- ECON 210 - Quantitative Methods for Economists *Units: 3*
- ECON 211 - Programming for Data Analysts *Units: 3*
- ECON 300 - Microeconomic Theory I *Units: 3*
- ECON 301 - Microeconomic Theory II *Units: 3*
- ECON 305 - Macroeconomic Theory *Units: 3*
- ECON 306 - Money, Banking, & Financial Intermediaries *Units: 3 ; G.E./G.R. Area: D4*
- ECON 310 - Introduction to Econometrics *Units: 3*
- ECON 320 - History of Economic Thought *Units: 3*
- ECON 334 - Economics of Information and Organizations *Units: 3*
- ECON 335 - Introduction to Urban Economics *Units: 3*
- ECON 337 - Sports Economics *Units: 3 ; G.E./G.R. Area: D4*
- ECON 350 - International Economics *Units: 3*
- ECON 360 - Environmental Economics *Units: 3*
- ECON 370 - Health Economics and Public Policy *Units: 3*
- ECON 380 - Managerial Economics and Business Strategy *Units: 3 ; G.E./G.R. Area: B6;*

Sustainability

- ECON 383 - Game-Theoretic Reasoning: The Science of Interactive Behavior *Units: 3 ; G.E./G.R. Area: B6*
- ECON 385 - Global Economic Analysis *Units: 3*
- ECON 397 - Issues in Economic Analysis *Units: 3*
- ECON 398 - Internship *Units: 1-3*
- ECON 400 - Game Theory *Units: 3*
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- ECON 460 - Introduction to Public Economics *Units: 3*
- ECON 490 - Independent Study *Units: 1-4*
- ECON 497 - Special Topics in Economic Analysis *Units: 3*
- ECON 499 - Capstone: Empirical Analysis *Units: 3*

Economics: Graduate

- • BUS 606 - Managerial Economics *Units: 3*
- • ECON 600 - Foundations of Economic Theory *Units: 4*
- • ECON 601 - Advanced Microeconomics *Units: 4*
- • ECON 605 - Advanced Macroeconomics *Units: 4*
- • ECON 610 - Advanced Econometrics *Units: 4*
- • ECON 623 - Market Design *Units: 4*
- • ECON 625 - Urban Economics *Units: 4*
- • ECON 627 - Personnel Economics *Units: 4*
- • ECON 636 - Monetary Theory *Units: 4*
- • ECON 640 - Public Economics *Units: 4*
- • ECON 647 - International Economic Development *Units: 4*
- • ECON 660 - Industrial Organization *Units: 4*
- • ECON 661 - Strategic Pricing *Units: 4*
- • ECON 665 - Corporate Governance & Entrepreneurship *Units: 4*
- • ECON 667 - Project Analysis *Units: 4*
- • ECON 670 - Economic Research Practices *Units: 4*
- • ECON 688 - Applied Data Analysis *Units: 3*
- • ECON 690 - Independent Study *Units: 1-4*
- • ECON 693 - Project *Units: 1*
- • ECON 697 - Advanced Topics in Economics *Units: 4*
- • ECON 698 - Internship *Units: 1-3*

Department of Educational Leadership

The Department Office is located on the 2nd Floor of the AE building, Room 250

Hours Open: 8:30 am to 5:00 pm Monday through Friday

Dept. Phone: (510) 885-4145

Faculty

Professor Emeritus

José A. López, Ph.D. University of North Texas

Professors

Gilberto Arriaza, Ph.D. University of California, Berkeley

Eric Haas, Ph.D. Arizona State University

Peg Winkleman (Chair), Ph.D. University of California, Berkeley

Associate Professor

Ardella J. Dailey, Ed.D. University of California, Berkeley

Assistant Professors

Mariama Smith Gray, Ph.D. University of California, Davis

Kathryn Hayes, Ph.D. University of California, Davis

Gerald Reyes, Ph.D. University of California, Berkeley

Kathryn Strom, Ed.D. Montclair State University

Mission Statement

The mission of the Department of Educational Leadership at CSUEB is to prepare and influence bold, socially responsible leaders who will transform the world of schooling. Our central role is to ignite the leadership capacity needed to create vital, democratic and caring places for powerful teaching and learning.

About the Department

Use our university website link to learn more about what the Educational Leadership Department has to offer.

- Resources
- Partnerships
- e-Learning
- Community Outreach
- Center for Research, Equity & Collaborative Engagement (CRECE)
- Credential Student Services Center (CSSC)
- And more...

Credential

Administrative Services Credential Clear Induction Program

Administrative Services Credential Clear Induction Program

Program Description

The mission of the Department of Educational Leadership is to prepare bold, socially responsible leaders who will transform the world of schooling. Students examine social, cultural and linguistic issues linked to larger equity and social justice challenges. The program's central role is to help build the leadership capacity needed to create vital, democratic, professional learning communities for equitable learning and teaching.

Career Opportunities

Completing the Administrative Services Credential Clear Induction program enables graduates to obtain an administrative credential that is required for administrative positions at all levels of the K-12 public education system. Various positions include those in school site administration (e.g., principal, vice

principal), and district-level administration (e.g., curriculum coordinator, staff development coordinator, special programs coordinator, human resources, assistant superintendent, and superintendent, among others). In addition, graduates also obtain many positions at county and state-wide public education offices.

Admission Requirements

A candidate must be admitted to the University consistent with requirements and procedures explained in this catalog. Interested candidates apply for admission to the department and to the University at the same time. Candidates are admitted to the program if they have completed the requirements for the Preliminary Administrative Services (Tier I) Credential and are currently employed in an administrative position in a K-12 setting. Applications for admission to the department are online at the departmental website. All admissions materials should be sent to the CSUEB Credential Student Service Center (CSSC), AE 235, 25800 Carlos Bee Blvd., Hayward, CA 94542.

Requirements for the Administrative Services Credential Clear Induction Program include the following:

- Current Preliminary Administrative Services Credential
- Verified position as a school administrator (form available on the department website)
- A current resume showing evidence of leadership experience

Program Learning Outcomes

California Professional Standards for Educational Leadership (CPSEL)

- STD 1: Development and Implementation of a Shared Vision
- STD 2: Instructional Leadership
- STD 3: Management & Learning Environment
- STD 4: Family & Community Engagement
- STD 5: Ethics & Integrity
- STD 6: External Context & Policy

Administrative Services Credential Clear Induction Program Requirements (12 units)

To be recommended for the credential, students must satisfactorily complete all of the following 12 units of coursework and fulfill all the credential requirements:

Credential Coursework

Take all of the following:

- EDLD 681 - Coaching and Assessment Practicum I *Units: 2*
- EDLD 682 - Coaching and Assessment Practicum II *Units: 2*
- EDLD 683 - Coaching and Assessment Practicum III *Units: 2*
- EDLD 684 - Coaching and Assessment Practicum IV *Units: 2*

- EDLD 685 - Managing an Organization and Developing a Collaborative Culture *Units: 1*
- EDLD 686 - Professional and Community Development *Units: 1*
- EDLD 687 - Developing an Inquiring Community *Units: 1*
- EDLD 688 - Political Social Context in Education *Units: 1*

Department Courses Listed by Course Type

Educational Leadership Courses

Department of Educational Leadership

Go to information for this department.

Courses

Educational Leadership

- EDLD 600 - Leading for Social Justice and Equity in Urban Schools *Units: 4 ; G.E./G.R. Area: UWSR*
- EDLD 610 - Transforming Professional Learning to Support Equitable Student Outcomes *Units: 4*
- EDLD 620 - Educational Leadership for Equitable Resources *Units: 3*
- EDLD 625 - School Laws, Policies and Governance for Equitable Outcomes *Units: 3*
- EDLD 630 - Collaborative Research for Equity *Units: 4*
- EDLD 635 - Equity Research Design I *Units: 3*
- EDLD 645 - Equity Research Design II *Units: 3*
- EDLD 650 - Critical Topics in Educational Leadership I *Units: 1*
- EDLD 655 - Critical Topics in Educational Leadership II *Units: 1*
- EDLD 681 - Coaching and Assessment Practicum I *Units: 2*
- EDLD 682 - Coaching and Assessment Practicum II *Units: 2*
- EDLD 683 - Coaching and Assessment Practicum III *Units: 2*
- EDLD 684 - Coaching and Assessment Practicum IV *Units: 2*
- EDLD 685 - Managing an Organization and Developing a Collaborative Culture *Units: 1*
- EDLD 686 - Professional and Community Development *Units: 1*
- EDLD 687 - Developing an Inquiring Community *Units: 1*
- EDLD 688 - Political Social Context in Education *Units: 1*
- EDLD 690 - Independent Study *Units: 1-3*
- EDLD 693 - Collaborative Research Project *Units: 4*
- EDLD 695 - Fieldwork Practicum *Units: 2*
- EDLD 696 - Fieldwork Practicum *Units: 2*
- EDLD 697 - Issues in Educational Leadership *Units: 1-3*

Educational Leadership: Doctoral

- EDLD 700 - Transformative Leadership *Units: 3*
- EDLD 705 - Foundations of Inquiry for Social Justice *Units: 3*
- EDLD 710 - Social and Cultural Foundations of Education *Units: 3*
- EDLD 715 - Transforming Teaching and Learning in Schools *Units: 3*
- EDLD 720 - Qualitative Inquiry for Social Justice *Units: 3*

- EDLD 725 - Reading and Writing about Educational Leadership *Units: 3*
- EDLD 730 - Community Advocacy, Outreach, and Organizing *Units: 3*
- EDLD 735 - Engaging Critical Social Theories for Designing Research for Equity and Social Justice *Units: 3*
- EDLD 740 - Reform and Change for Social Justice *Units: 3*
- EDLD 745 - Quantitative Inquiry: Data Analysis and Evaluation for Leaders *Units: 3*
- EDLD 750 - Critical Policy Studies in Education *Units: 3*
- EDLD 755 - Applied Study of Educational Issues: Professional Residency I *Units: 3*
- EDLD 760 - Evaluation Research Practicum for Social Justice *Units: 3*
- EDLD 765 - Applied Study of Educational Issues: Professional Residency II *Units: 2*
- EDLD 770 - Critical Perspectives for Finance and Resource Management *Units: 3*
- EDLD 775 - Organizations and Systems for Equity *Units: 3*
- EDLD 780 - Research for Equity and Social Justice *Units: 2*
- EDLD 790 - Research Topic Exploration *Units: 2*
- EDLD 791 - Collaborative Proposal Research *Units: 1*
- EDLD 792 - Collaborative Proposal Development *Units: 2*
- EDLD 793 - Collaborative Dissertation Writing *Units: 3*
- EDLD 799 - Dissertation Seminar *Units: 3*

Preliminary Administrative Services Credential Program

Preliminary Administrative Services Credential Program

Program Description

The mission of the Department of Educational Leadership is to prepare bold, socially responsible leaders who will transform the world of schooling. Students examine social, cultural and linguistic issues linked to larger equity and social justice challenges. Our central role is to help build the leadership capacity needed to create vital, democratic, professional learning communities for equitable learning and teaching.

Career Opportunities

Completion of the Preliminary Administrative Services Credential enables graduates to assume administrative positions at all levels of the K-12 public education system. Positions include those in school site administration (e.g., principal, vice principal), and district level administration (e.g., curriculum coordinator, staff development coordinator, special programs coordinator, human resources, assistant superintendent, superintendent, etc.). In addition, graduates also obtain many positions at the county and state level offices.

Admission Requirements

A candidate must be admitted to the University consistent with requirements and procedures explained in this catalog. Candidates may apply for admission to the Department and to the University at the same time. Applications for admission to the Department are outlined on the departmental website. All admissions materials should be sent to the Cal State East Bay Credential Student Service Center (CSSC), AE 235, 25800 Carlos Bee Blvd., Hayward, CA 94542.

Requirements for the Professional Administrative Services Credential Program include:

- A bachelor's degree
- Verification of position as a school teacher (form available on the Department website)
- A current resume
- For "Classified Graduate" status and Advancement to Candidacy, M.S. students must have successfully met the University Writing Skills Requirement. For more information, see the Testing Office website at www.csueastbay.edu/testing or call (510) 885-3661.

Program Learning Outcomes

California Professional Standards for Educational Leadership (CPSEL)

STD 1: Development and Implementation of a Shared Vision

STD 2: Instructional Leadership

STD 3: Management & Learning Environment

STD 4: Family & Community Engagement

STD 5: Ethics & Integrity

STD 6: External Context & Policy

Preliminary Administrative Services Credential Program Requirements (20-22 units)

Credential Requirements

Complete 20-22 units from the following courses:

- EDLD 600 - Leading for Social Justice and Equity in Urban Schools *Units: 4 ; G.E./G.R. Area: UWSR*
- EDLD 610 - Transforming Professional Learning to Support Equitable Student Outcomes *Units: 4*
- EDLD 620 - Educational Leadership for Equitable Resources *Units: 3*
- EDLD 625 - School Laws, Policies and Governance for Equitable Outcomes *Units: 3*
- EDLD 690 - Independent Study *Units: 1-3*
- EDLD 695 - Fieldwork Practicum *Units: 2*
- EDLD 696 - Fieldwork Practicum *Units: 2*

Department Courses Listed by Course Type

Educational Leadership Courses

Department of Educational Leadership

Go to information for this department.

Courses

Educational Leadership

- UWSR • EDLD 600 - Leading for Social Justice and Equity in Urban Schools *Units: 4 ; G.E./G.R. Area:*
- Units: 4 • EDLD 610 - Transforming Professional Learning to Support Equitable Student Outcomes
- • EDLD 620 - Educational Leadership for Equitable Resources *Units: 3*
- • EDLD 625 - School Laws, Policies and Governance for Equitable Outcomes *Units: 3*
- • EDLD 630 - Collaborative Research for Equity *Units: 4*
- • EDLD 635 - Equity Research Design I *Units: 3*
- • EDLD 645 - Equity Research Design II *Units: 3*
- • EDLD 650 - Critical Topics in Educational Leadership I *Units: 1*
- • EDLD 655 - Critical Topics in Educational Leadership II *Units: 1*
- • EDLD 681 - Coaching and Assessment Practicum I *Units: 2*
- • EDLD 682 - Coaching and Assessment Practicum II *Units: 2*
- • EDLD 683 - Coaching and Assessment Practicum III *Units: 2*
- • EDLD 684 - Coaching and Assessment Practicum IV *Units: 2*
- • EDLD 685 - Managing an Organization and Developing a Collaborative Culture *Units: 1*
- • EDLD 686 - Professional and Community Development *Units: 1*
- • EDLD 687 - Developing an Inquiring Community *Units: 1*
- • EDLD 688 - Political Social Context in Education *Units: 1*
- • EDLD 690 - Independent Study *Units: 1-3*
- • EDLD 693 - Collaborative Research Project *Units: 4*
- • EDLD 695 - Fieldwork Practicum *Units: 2*
- • EDLD 696 - Fieldwork Practicum *Units: 2*
- • EDLD 697 - Issues in Educational Leadership *Units: 1-3*

Educational Leadership: Doctoral

- • EDLD 700 - Transformative Leadership *Units: 3*
- • EDLD 705 - Foundations of Inquiry for Social Justice *Units: 3*
- • EDLD 710 - Social and Cultural Foundations of Education *Units: 3*
- • EDLD 715 - Transforming Teaching and Learning in Schools *Units: 3*
- • EDLD 720 - Qualitative Inquiry for Social Justice *Units: 3*
- • EDLD 725 - Reading and Writing about Educational Leadership *Units: 3*
- • EDLD 730 - Community Advocacy, Outreach, and Organizing *Units: 3*
- • EDLD 735 - Engaging Critical Social Theories for Designing Research for Equity and Social Justice *Units: 3*
- • EDLD 740 - Reform and Change for Social Justice *Units: 3*
- • EDLD 745 - Quantitative Inquiry: Data Analysis and Evaluation for Leaders *Units: 3*
- • EDLD 750 - Critical Policy Studies in Education *Units: 3*
- • EDLD 755 - Applied Study of Educational Issues: Professional Residency I *Units: 3*
- • EDLD 760 - Evaluation Research Practicum for Social Justice *Units: 3*
- • EDLD 765 - Applied Study of Educational Issues: Professional Residency II *Units: 2*
- • EDLD 770 - Critical Perspectives for Finance and Resource Management *Units: 3*
- • EDLD 775 - Organizations and Systems for Equity *Units: 3*
- • EDLD 780 - Research for Equity and Social Justice *Units: 2*
- • EDLD 790 - Research Topic Exploration *Units: 2*
- • EDLD 791 - Collaborative Proposal Research *Units: 1*
- • EDLD 792 - Collaborative Proposal Development *Units: 2*

- • EDLD 793 - Collaborative Dissertation Writing *Units: 3*
- • EDLD 799 - Dissertation Seminar *Units: 3*

Master

Educational Leadership, M.S. (Available Online)

The M.S. Educational Leadership online program is only available through Continuing Education.

Educational Leadership, M.S. Program

Program Description

The mission of the Department of Educational Leadership is to prepare bold, socially responsible leaders who will transform the world of schooling. Students examine social, cultural and linguistic issues linked to larger equity and social justice challenges. Our central role is to help build the leadership capacity needed to create vital, democratic, professional learning communities for equitable learning and teaching. The department offers the onsite/hybrid program and University Extension offers the fully online program.

Career Opportunities

Completion of the administrative credential and educational leadership master's program enable graduates to obtain a credential that allows them to assume administrative positions at all levels of the K-12 public education system. Various positions include those in school site administration (e.g., principal and vice principal), and district level administration (e.g., curriculum coordinator, staff development coordinator, special programs coordinator, human resources, assistant superintendent, superintendent, etc.). In addition, graduates also obtain many positions at the county and state level offices.

Admission Requirements

A candidate must be admitted to the University, consistent with requirements and procedures explained in this catalog. Candidates apply for admission to the Department and to the University at the same time. Candidates are admitted to the master's degree program and have the option of completing the requirements for the Preliminary Administrative Services Credential by the end of their first year of enrollment. Applications for admission to the department are online at the departmental website. All admissions materials should be sent to the Credential Student Service Center (CSSC), AE 235, 25800 Carlos Bee Blvd., Hayward, CA 94542.

Additional requirements for admission to the M.S. in Educational Leadership and/or the Preliminary Administrative Services Credential include the following:

- A bachelor's degree from an accredited university
- 3.0 GPA or equivalent on all post-baccalaureate work
- A current, valid teaching credential or services credential, such as Pupil Personnel Services, Adult Education, Librarianship, Health Services School Nurse, or Clinical Rehabilitative Services.
- A minimum of three years full-time teaching or service experience as documented by district verification (form available on department website)

- Internship candidates must verify administrative position (form available on department website)
- A current resume showing evidence of leadership experience
- Three recommendations (form available on department website)
- A one-page statement of professional goals
- University application, including two sets of transcripts.

Requirements for the Administrative Services Credential Clear Induction Program include:

- Current Preliminary Administrative Services Credential.
- Verification of position as a school administrator (form available on the department website).
- A current resume showing evidence of leadership experience.

Program Learning Outcomes

The program learning outcomes for the MS in Educational Leadership are the California Administrator Performance Expectations (CAPE) that are aligned to the California Professional Standards for Educational Leaders (CPSEL). The California Commission on Teacher Credentialing adopted revised standards on June 30th, 2016.

1. **Development and Implementation of a Shared Vision.** Educational leaders facilitate the development and implementation of a shared vision of learning and growth of all students.
2. **Instructional Leadership.** Educational leaders shape a collaborative culture of teaching and learning informed by professional standards and focused on student and professional growth.
3. **Management and Learning Environment.** Educational leaders manage the organization to cultivate a safe and productive learning and working environment.
4. **Family and Community Engagement.** Educational leaders collaborate with families and other stakeholders to address diverse student and community interests and mobilize community resources.
5. **Ethics and Integrity.** Educational leaders make decisions, model, and behave in ways that demonstrate professionalism, ethics, integrity, justice, and equity and hold staff to the same standard.
6. **External Context and Policy.** Educational leaders influence political, social, economic, legal and cultural contexts affecting education to improve education policies and practices.

Advancement to Candidacy

"Classified Graduate" Students are eligible for Advancement to Candidacy based on the following criteria:

1. Maintenance of a 3.0 grade point average in all graduate work completed.
2. Submission to the graduate coordinator of an approved program of study developed in conjunction with the appropriate faculty.
3. Completion of the Writing Skills Requirement through passage of the test or equivalency.

Cause for Dismissal

A graduate student may be placed on academic probation for not achieving a 3.0 GPA in any semester. A student may be academically disqualified for failing to achieve a 3.0 in all units taken after admission to a graduate program, by not meeting the academic criteria of the department or behaving contrary to professional standards.

A graduate student may be declassified (or dropped) from a graduate degree for unprofessional conduct, behavior that interferes with others' learning, failure to make progress toward the degree, failure to meet grade requirements, and/or the department faculty determine that the student cannot complete degree requirements at the graduate level even if the GPA is above a 3.0. Please see University Catalog for more detail: <http://www.csueastbay.edu/academic/academic-policies/academic-probation.html>.

Educational Leadership Degree Requirements (30 units)

Core Requirements

Candidates must complete all 18 units of core courses.

- EDLD 600 - Leading for Social Justice and Equity in Urban Schools *Units: 4 ; G.E./G.R. Area: UWSR*
- EDLD 610 - Transforming Professional Learning to Support Equitable Student Outcomes *Units: 4*
- EDLD 620 - Educational Leadership for Equitable Resources *Units: 3*
- EDLD 625 - School Laws, Policies and Governance for Equitable Outcomes *Units: 3*
- EDLD 630 - Collaborative Research for Equity *Units: 4*

Elective Courses

All students must consult your graduate advisor to choose the appropriate 8 units of electives. Select from the following courses:

- EDLD 635 - Equity Research Design I *Units: 3*
- EDLD 645 - Equity Research Design II *Units: 3*
- EDLD 650 - Critical Topics in Educational Leadership I *Units: 1*
- EDLD 655 - Critical Topics in Educational Leadership II *Units: 1*
- EDLD 681 - Coaching and Assessment Practicum I *Units: 2*
- EDLD 682 - Coaching and Assessment Practicum II *Units: 2*
- EDLD 683 - Coaching and Assessment Practicum III *Units: 2*
- EDLD 684 - Coaching and Assessment Practicum IV *Units: 2*
- EDLD 685 - Managing an Organization and Developing a Collaborative Culture *Units: 1*
- EDLD 686 - Professional and Community Development *Units: 1*
- EDLD 687 - Developing an Inquiring Community *Units: 1*
- EDLD 688 - Political Social Context in Education *Units: 1*
- EDLD 690 - Independent Study *Units: 1-3*

Capstone Requirement

The following 4-unit capstone is required:

- EDLD 693 - Collaborative Research Project *Units: 4*

Other Graduate & Post-Baccalaureate Degree Requirements

In addition to departmental requirements, every student must also satisfy the University requirements for graduation as described throughout this catalog. These include the 70% unit residence requirement; the five-year rule on currency of subject matter; the minimum number of units in 600-level courses; the "C" minimum grade for each graduate course; the 3.00 cumulative grade point average; and the University Writing Skills Requirement.

Note: For information on meeting the University Writing Skills Requirement, see the Testing Office website at www.csueastbay.edu/testing or call (510) 885-3661.

Department Courses Listed by Course Type

Educational Leadership Courses

Department of Educational Leadership

Go to information for this department.

Courses

Educational Leadership

- EDLD 600 - Leading for Social Justice and Equity in Urban Schools *Units: 4 ; G.E./G.R. Area: UWSR*
- EDLD 610 - Transforming Professional Learning to Support Equitable Student Outcomes *Units: 4*
- EDLD 620 - Educational Leadership for Equitable Resources *Units: 3*
- EDLD 625 - School Laws, Policies and Governance for Equitable Outcomes *Units: 3*
- EDLD 630 - Collaborative Research for Equity *Units: 4*
- EDLD 635 - Equity Research Design I *Units: 3*
- EDLD 645 - Equity Research Design II *Units: 3*
- EDLD 650 - Critical Topics in Educational Leadership I *Units: 1*
- EDLD 655 - Critical Topics in Educational Leadership II *Units: 1*
- EDLD 681 - Coaching and Assessment Practicum I *Units: 2*
- EDLD 682 - Coaching and Assessment Practicum II *Units: 2*
- EDLD 683 - Coaching and Assessment Practicum III *Units: 2*
- EDLD 684 - Coaching and Assessment Practicum IV *Units: 2*
- EDLD 685 - Managing an Organization and Developing a Collaborative Culture *Units: 1*
- EDLD 686 - Professional and Community Development *Units: 1*
- EDLD 687 - Developing an Inquiring Community *Units: 1*
- EDLD 688 - Political Social Context in Education *Units: 1*
- EDLD 690 - Independent Study *Units: 1-3*
- EDLD 693 - Collaborative Research Project *Units: 4*
- EDLD 695 - Fieldwork Practicum *Units: 2*
- EDLD 696 - Fieldwork Practicum *Units: 2*
- EDLD 697 - Issues in Educational Leadership *Units: 1-3*

Educational Leadership: Doctoral

- EDLD 700 - Transformative Leadership *Units: 3*

- EDLD 705 - Foundations of Inquiry for Social Justice *Units: 3*
- EDLD 710 - Social and Cultural Foundations of Education *Units: 3*
- EDLD 715 - Transforming Teaching and Learning in Schools *Units: 3*
- EDLD 720 - Qualitative Inquiry for Social Justice *Units: 3*
- EDLD 725 - Reading and Writing about Educational Leadership *Units: 3*
- EDLD 730 - Community Advocacy, Outreach, and Organizing *Units: 3*
- EDLD 735 - Engaging Critical Social Theories for Designing Research for Equity and Social Justice *Units: 3*
- EDLD 740 - Reform and Change for Social Justice *Units: 3*
- EDLD 745 - Quantitative Inquiry: Data Analysis and Evaluation for Leaders *Units: 3*
- EDLD 750 - Critical Policy Studies in Education *Units: 3*
- EDLD 755 - Applied Study of Educational Issues: Professional Residency I *Units: 3*
- EDLD 760 - Evaluation Research Practicum for Social Justice *Units: 3*
- EDLD 765 - Applied Study of Educational Issues: Professional Residency II *Units: 2*
- EDLD 770 - Critical Perspectives for Finance and Resource Management *Units: 3*
- EDLD 775 - Organizations and Systems for Equity *Units: 3*
- EDLD 780 - Research for Equity and Social Justice *Units: 2*
- EDLD 790 - Research Topic Exploration *Units: 2*
- EDLD 791 - Collaborative Proposal Research *Units: 1*
- EDLD 792 - Collaborative Proposal Development *Units: 2*
- EDLD 793 - Collaborative Dissertation Writing *Units: 3*
- EDLD 799 - Dissertation Seminar *Units: 3*

Doctoral

Educational Leadership, Ed.D. **

** Please see the Errata chapter in this catalog for information concerning this degree.

Educational Leadership for Social Justice, Ed.D. Program

Program Description

The mission of the Educational Leadership for Social Justice (ELSJ) Doctoral Program is to prepare educators and other school personnel to assume positions of executive leadership. A primary objective of the program is to guide educators and educational professionals to become bold, socially responsible agents of change and transformation. Graduates of the doctoral program will be able to contribute to closing opportunity gaps that exist between White students, students of color, and students marginalized by gender, sexuality, class, and disability.

The program provides theory, research, and practice in a learning community in which students develop a deeper understanding of themselves as educators, leaders, information producers, policymakers, and policy advocates. Students also develop the knowledge, skills and habits of mind necessary to improve the quality of learning for all students.

Career Opportunities

Graduates with a doctoral degree in Educational Leadership serve in many different arenas that impact education. One career path for graduates is to become an executive leader in a school district or County

Office of Education. Such positions include superintendents, assistant superintendents or directors of curriculum, programs or human relations. Other professionals obtaining the Ed.D. degree serve as policy makers in state and national departments of education, credentialing agencies or as staff for elected officials. Another group works with local, state or national educational foundations, school reform agencies, research organizations, or publishing companies. Others direct grants or consult with schools or districts. Finally, people with an Ed.D. may teach or serve in leadership roles in colleges and universities.

Admission Requirements

- A bachelor's degree and a master's degree from an accredited institution with a GPA in graduate study of 3.0 or above.
- Graduate Record Examination scores within the past 5 years
- Three confidential recommendation forms
- Professional resume
- Written response to a writing prompt about school effectiveness
- Documented professional or personal commitment to equity and social justice
- Demonstrated leadership skills and abilities in education or closely related field
- Professional experiences that demonstrate problem-solving ability and an interest in critically assessing current educational policies and practices

Program Learning Outcomes

The Ed.D. program, Educational Leadership for Social Justice, is organized around the following set of goals:

1. Reflective Practice - Develop reflective leaders who can use self-analysis, inquiry and purposeful reflection to continually improve their own practice; model and encourage these habits with staff; and create communities of practice that promote high achievement for all students.
2. Equity and Cultural Competency - Develop culturally competent practitioner-advocates who purposefully work for equity and dismantle systems of cultural and racial domination and oppression.
3. Systems Thinking - Develop skillful leaders who understand the dynamics of educational systems and are able to leverage those systems in coherent, aligned strategies for educational change by creating democratic learning communities that promote high achievement for all students.
4. Accountability for Equitable Student Performance - Develop instructional leaders who possess the knowledge and ability to ensure that all students engage in powerful, equitable learning opportunities by fostering effective curricular programs, student-centered learning environments, and accountable school cultures that reflect high expectations for student achievement and provide the requisite supports to ensure all students can meet them.
5. Instructional Leadership - Develop socially just instructional leaders who inspire a shared vision and commitment to support all students in achieving at high levels by developing structures and processes fostering collaboration and critical inquiry for continuous pedagogical improvement.
6. Leadership Capacity and Organizational Management - Develop leaders who assess, organize and allocate resources that build and sustain an equitable and socially just organizational culture fostering leadership and change processes that move school systems toward high achievement for all students.

7. Develop leaders who understand the dynamic nature of school systems and educational politics in order to influence politics and policies at multiple levels in ways that support goals of inclusion and equity for all constituents, especially underrepresented groups.

8. Research - Develop leaders who are practitioner-researchers that purposefully engage in inquiry and construct knowledge that promotes social justice and equity in education and advances the public good.

9. Effective Communication - Develop leaders who are powerful communicators in multiple genres and able to promote equity to multiple audiences, including academic, policy makers, and educational stakeholders. Tied to principals of social justice 1, 4, and 6.

Ed.D. Degree Requirements

1. The degree requires a minimum of 60 semester units of approved doctoral-level coursework, including EDLD 780 and EDLD 799, all to be completed within a three-year period. Students must take classes at a CSUEB facility for no less than two semesters each year of the program.
2. A 3.0 GPA or better in all 60 semester units offered as satisfying the requirements of the degree.
3. Satisfactory performance on two qualifying examinations and approval of dissertation prospectus.
4. Completion and oral defense of a dissertation.

Academic Residence

At least 42 semester units shall be completed in residence at California State University at East Bay in order to meet requirements for obtaining an Ed.D. degree.

Transfer of Units

Six semester units of advanced level coursework (beyond the Master's degree) as a matriculated student from an accredited institution may be transferred into the doctoral program, subject to the approval of the Director of the ELSJ Program. The coursework must be deemed equivalent to ELSJ coursework. Students must have earned a grade of B or better in the transferred course. Transfer courses may not have been taken more than 7 years prior to anticipated graduation from the ELSJ Program.

Educational Leadership for Social Justice Doctoral Requirements (60 units)

Core Requirements

Candidates must complete all 57 units of core requirements:

- EDLD 700 - Transformative Leadership *Units: 3*
- EDLD 705 - Foundations of Inquiry for Social Justice *Units: 3*
- EDLD 710 - Social and Cultural Foundations of Education *Units: 3*
- EDLD 715 - Transforming Teaching and Learning in Schools *Units: 3*
- EDLD 720 - Qualitative Inquiry for Social Justice *Units: 3*
- EDLD 725 - Reading and Writing about Educational Leadership *Units: 3*
- EDLD 730 - Community Advocacy, Outreach, and Organizing *Units: 3*

- EDLD 735 - Engaging Critical Social Theories for Designing Research for Equity and Social Justice *Units: 3*
- EDLD 740 - Reform and Change for Social Justice *Units: 3*
- EDLD 745 - Quantitative Inquiry: Data Analysis and Evaluation for Leaders *Units: 3*
- EDLD 750 - Critical Policy Studies in Education *Units: 3*
- EDLD 755 - Applied Study of Educational Issues: Professional Residency I *Units: 3*
- EDLD 760 - Evaluation Research Practicum for Social Justice *Units: 3*
- EDLD 765 - Applied Study of Educational Issues: Professional Residency II *Units: 2*
- EDLD 770 - Critical Perspectives for Finance and Resource Management *Units: 3*
- EDLD 775 - Organizations and Systems for Equity *Units: 3*
- EDLD 780 - Research for Equity and Social Justice *Units: 2*
- EDLD 790 - Research Topic Exploration *Units: 2*
- EDLD 791 - Collaborative Proposal Research *Units: 1*
- EDLD 792 - Collaborative Proposal Development *Units: 2*
- EDLD 793 - Collaborative Dissertation Writing *Units: 3*

Capstone

Candidates will complete the following coursework for 3 units:

- EDLD 799 - Dissertation Seminar *Units: 3*

Other Graduate & Post-Baccalaureate Degree Requirements

In addition to departmental requirements, every student must also satisfy the University requirements for graduation as described throughout this catalog. These include the 70% unit residence requirement; the five-year rule on currency of subject matter; the minimum number of units in 600-level courses; the "C" minimum grade for each graduate course; the 3.00 cumulative grade point average; and the University Writing Skills Requirement.

Note: For information on meeting the University Writing Skills Requirement, see the Testing Office website at www.csueastbay.edu/testing or call (510) 885-3661.

Department Courses Listed by Course Type

Educational Leadership Courses

Department of Educational Leadership

Go to information for this department.

Courses

Educational Leadership

- • EDLD 600 - Leading for Social Justice and Equity in Urban Schools *Units: 4 ; G.E./G.R. Area:*
UWSR
- • EDLD 610 - Transforming Professional Learning to Support Equitable Student Outcomes
Units: 4
- • EDLD 620 - Educational Leadership for Equitable Resources *Units: 3*
- • EDLD 625 - School Laws, Policies and Governance for Equitable Outcomes *Units: 3*
- • EDLD 630 - Collaborative Research for Equity *Units: 4*
- • EDLD 635 - Equity Research Design I *Units: 3*
- • EDLD 645 - Equity Research Design II *Units: 3*
- • EDLD 650 - Critical Topics in Educational Leadership I *Units: 1*
- • EDLD 655 - Critical Topics in Educational Leadership II *Units: 1*
- • EDLD 681 - Coaching and Assessment Practicum I *Units: 2*
- • EDLD 682 - Coaching and Assessment Practicum II *Units: 2*
- • EDLD 683 - Coaching and Assessment Practicum III *Units: 2*
- • EDLD 684 - Coaching and Assessment Practicum IV *Units: 2*
- • EDLD 685 - Managing an Organization and Developing a Collaborative Culture *Units: 1*
- • EDLD 686 - Professional and Community Development *Units: 1*
- • EDLD 687 - Developing an Inquiring Community *Units: 1*
- • EDLD 688 - Political Social Context in Education *Units: 1*
- • EDLD 690 - Independent Study *Units: 1-3*
- • EDLD 693 - Collaborative Research Project *Units: 4*
- • EDLD 695 - Fieldwork Practicum *Units: 2*
- • EDLD 696 - Fieldwork Practicum *Units: 2*
- • EDLD 697 - Issues in Educational Leadership *Units: 1-3*

Educational Leadership: Doctoral

- • EDLD 700 - Transformative Leadership *Units: 3*
- • EDLD 705 - Foundations of Inquiry for Social Justice *Units: 3*
- • EDLD 710 - Social and Cultural Foundations of Education *Units: 3*
- • EDLD 715 - Transforming Teaching and Learning in Schools *Units: 3*
- • EDLD 720 - Qualitative Inquiry for Social Justice *Units: 3*
- • EDLD 725 - Reading and Writing about Educational Leadership *Units: 3*
- • EDLD 730 - Community Advocacy, Outreach, and Organizing *Units: 3*
- • EDLD 735 - Engaging Critical Social Theories for Designing Research for Equity and Social
Justice Units: 3
- • EDLD 740 - Reform and Change for Social Justice *Units: 3*
- • EDLD 745 - Quantitative Inquiry: Data Analysis and Evaluation for Leaders *Units: 3*
- • EDLD 750 - Critical Policy Studies in Education *Units: 3*
- • EDLD 755 - Applied Study of Educational Issues: Professional Residency I *Units: 3*
- • EDLD 760 - Evaluation Research Practicum for Social Justice *Units: 3*
- • EDLD 765 - Applied Study of Educational Issues: Professional Residency II *Units: 2*
- • EDLD 770 - Critical Perspectives for Finance and Resource Management *Units: 3*
- • EDLD 775 - Organizations and Systems for Equity *Units: 3*
- • EDLD 780 - Research for Equity and Social Justice *Units: 2*
- • EDLD 790 - Research Topic Exploration *Units: 2*
- • EDLD 791 - Collaborative Proposal Research *Units: 1*
- • EDLD 792 - Collaborative Proposal Development *Units: 2*
- • EDLD 793 - Collaborative Dissertation Writing *Units: 3*
- • EDLD 799 - Dissertation Seminar *Units: 3*

Department of Educational Psychology

The Department Office is located on the 2nd Floor of the AE building, Room 250.

Hours Open: 8:30 am to 5:00 pm Monday through Friday.

Dept. Phone: (510) 885-3011

Faculty

Professors

John M. Davis (Chair), Ph.D. University of California, Berkeley

R. Greg Jennings, Ph.D. University of California, Berkeley

Linda Smetana, Ed.D. Brigham Young University

Terry Soo-Hoo, Ph.D. University of California, Berkeley

Oanh Kim Tran, Ph.D. University of Oregon

Associate Professor

Janet P. Logan, Ph.D. University of Wyoming

Assistant Professors

Meaghan McCollow, Ph.D., University of Washington

Zachary Pietrantonio, Ph.D. Southern Illinois University

Graduate Coordinators:

- *M.S. in Special Education*
Linda Smetana (Mild-Moderate Disabilities)
- *M.S. Counseling*
Greg Jennings (School Psychology)
Nancy Deatrack (Marriage and Family Therapy)

Mission Statement

The mission of the Department of Educational Psychology is to prepare a diverse population of students as professional counselors, psychologists, special education specialists, and researchers for effective and innovative work in a variety of settings, including schools, agencies, hospitals, and industry.

About the Department

Use our university website link to learn more about what the Educational Psychology Department has to offer.

- Info Sessions
- Roadmaps
- Faculty
- Credential Student Service Center
- And more...

Credential

Education Specialist Credential in Mild/Moderate Disabilities

Education Specialist Credential

The Education Specialist Credential, in either Mild/Moderate Disabilities or Moderate/Severe Disabilities, prepares candidates for a career in teaching, additional service delivery, implementation of supports and leadership roles in special education. Content courses containing the latest in research and evidence-based practices and fieldwork experiences provide candidates with a wide range of practical methods for enhancing the lives of individuals with exceptional needs, their families and communities. The program provides extensive supervised fieldwork by Cal State East Bay faculty and successful practitioners in settings that are appropriate to a candidate's professional goals.

While completing the requirements for the Education Specialist credential, candidates will concurrently complete the requirements for the M.S. Special Education program:

Special Education, M.S.: Mild/Moderate Disabilities Concentration

Special Education, M.S.: Moderate/Severe Disabilities Concentration

Admission Requirements

1. Bachelor's degree from an accredited university
2. Department Application
3. University Application^[1]_[SEP]
4. Minimum of 3.0 cumulative GPA
5. Statement of Purpose

Additional Credential Requirements

1. Basic educational skills test approved by the California Commission on Teacher Credentialing (CTC).
2. Pass the Multiple Subject California Subject Examination for Teachers (CSET) or obtain a waiver for the CSET by completing an approved subject matter preparation program at a CSU.
3. Two letters of recommendation.
4. U.S. Constitution course or exam.
5. Certificate of Clearance.
6. Tuberculosis test.

Prerequisites

The 4-unit prerequisite is not included in the credential total units:

- SPED 500 - Educating All Learners in Diverse Classrooms *Units: 4*

Credential Requirements

The following 35 units of coursework are required for the credential and are concurrent with the M.S. Special Education, Mild/Moderate Disabilities Concentration requirements:

- SPED 601 - Educational Practices: Mild/Moderate Disabilities *Units: 4*
- SPED 603 - Teaming, Collaborative Educational Processes and Transition Services *Units: 4*
- SPED 604 - Individual and School-Wide Behavioral Needs, Mental Health & Positive Supports *Units: 4*
- SPED 605 - Communication and Technology *Units: 4*
- SPED 606 - Assessment: Students with Mild/Moderate Disabilities *Units: 4*
- SPED 607 - Curriculum and Instruction: Students with Mild/Moderate Disabilities *Units: 4*
- SPED 610 - Research and Professional Practices *Units: 4*
- SPED 611 - Fieldwork I: Mild/Moderate Disabilities *Units: 3*
- SPED 693 - Capstone Research Project *Units: 4*

The following 9 units of additional coursework are required for the Mild/Moderate Disabilities Credential:

- SPED 612 - Fieldwork II: Mild/Moderate Disabilities *Units: 3*
- SPED 613 - Final Student Teaching: Mild/Moderate Disabilities *Units: 6*

Department Courses Listed by Course Type

Educational Psychology Courses

Department of Educational Psychology

Go to information for this department.

Courses

Educational Psychology

- EPSY 101 - Career Planning For College Students *Units: 2 ; G.E./G.R. Area: E*
- EPSY 230 - Strategies for Lifespan Mental Health *Units: 3*
- EPSY 301 - Orientation to Careers in Counseling *Units: 3*
- EPSY 497 - Issues in Educational Psychology *Units: 3*

Educational Psychology: Graduate

- EPSY 630 - Law, Ethics and Professional Issues *Units: 3*
- EPSY 631 - Intimate Partner Violence *Units: 1*
- EPSY 632 - Child Abuse Assessment and Reporting *Units: 1*

- • EPSY 633 - Substance Abuse *Units: 3*
- • EPSY 634 - Family and Life Cycle Development *Units: 3*
- • EPSY 635 - Pre-Practicum Microcounseling Skills in Relational Practice *Units: 2*
- • EPSY 636 - Counseling Theories *Units: 3*
- • EPSY 637 - Multicultural Counseling *Units: 3*
- • EPSY 638 - Psychopathology *Units: 3*
- • EPSY 639 - Community Mental Health Counseling *Units: 3*
- • EPSY 641 - Child and Youth Psychotherapy *Units: 3*
- • EPSY 642 - Grief, Trauma, and Crisis Counseling *Units: 2*
- • EPSY 643 - Family Therapy *Units: 3*
- • EPSY 644 - Pre-Practicum Microcounseling Skills in Relational Practice II *Units: 2*
- • EPSY 645 - Introduction to Systemic-Relational Practice *Units: 2*
- • EPSY 646 - Contemporary Issues: Aging & Long-Term Care *Units: 2*
- • EPSY 647 - Psychopharmacology *Units: 3*
- • EPSY 648 - Assessment and Testing *Units: 3*
- • EPSY 650 - Group Counseling Theory and Practice *Units: 3*
- • EPSY 651 - Research Methods for Evidenced-Based Practice and Advocacy *Units: 3*
- • EPSY 652 - Human Sexuality and Gender *Units: 1*
- • EPSY 653 - Couples Therapy *Units: 3*
- • EPSY 654 - Career Counseling *Units: 3*
- • EPSY 655 - Advanced Pupil Personnel Services *Units: 3*
- • EPSY 660 - Clinic Rounds *Units: 3*
- • EPSY 661 - Academic Counseling *Units: 3*
- • EPSY 662 - Cognitive Behavior Therapy *Units: 3*
- • EPSY 663 - Psychoeducational Report Writing *Units: 3*
- • EPSY 664 - Diverse Needs in School Counseling *Units: 2*
- • EPSY 665 - Leadership, Advocacy, and Wellness *Units: 2*
- • EPSY 666 - Psychological Services in School Psychology *Units: 1*
- • EPSY 668 - Social and Emotional Assessment *Units: 3*
- • EPSY 669 - Moderate/Severe Disability Identification and Intervention *Units: 3*
- • EPSY 671 - Academic/Behavioral Assessment and Interventions *Units: 3*
- • EPSY 672 - Cognitive and Developmental Assessment *Units: 5*
- • EPSY 673 - Assessment of English Language Learners *Units: 1*
- • EPSY 674 - Lab: Psychoeducational Report Writing *Units: 2*
- • EPSY 678 - School Psychology Practicum: First-Year Supervision *Units: 3*
- • EPSY 679 - School Psychology Advanced Practicum: Second-Year Supervision *Units: 3*
- • EPSY 680 - School Psychology Internship Supervision *Units: 6*
- • EPSY 681 - Foundations in School Counseling *Units: 3*
- • EPSY 682 - Mental Health Consultation in Schools *Units: 3*
- • EPSY 683 - Crisis in Schools and Mental Health Settings *Units: 2*
- • EPSY 684 - Neuropsychology of Learning Disorders *Units: 4*
- • EPSY 685 - Advanced Service Delivery in School Psychology *Units: 3*
- • EPSY 690 - Independent Study *Units: 1-4*
- • EPSY 692 - Action Research and Comprehensive Evaluation *Units: 3*
- • EPSY 693A - Project in Marriage and Family Therapy *Units: 4*
- • EPSY 693B - Project in School Counseling *Units: 4*
- • EPSY 693C - Project in School Psychology *Units: 4*
- • EPSY 695 - Practicum *Units: 1-4*
- • EPSY 696 - Advanced Practicum *Units: 3*
- • EPSY 697 - Issues in Educational Psychology *Units: 2*
- • EPSY 698 - Internship *Units: 1-3*

- • SPED 500 - Educating All Learners in Diverse Classrooms *Units: 4*
- • SPED 601 - Educational Practices: Mild/Moderate Disabilities *Units: 4*
- • SPED 602 - Evidence-based Practices: Moderate/Severe Disabilities *Units: 4*
- • SPED 603 - Teaming, Collaborative Educational Processes and Transition Services *Units: 4*
- • SPED 604 - Individual and School-Wide Behavioral Needs, Mental Health & Positive Supports
Units: 4
- • SPED 605 - Communication and Technology *Units: 4*
- • SPED 606 - Assessment: Students with Mild/Moderate Disabilities *Units: 4*
- • SPED 607 - Curriculum and Instruction: Students with Mild/Moderate Disabilities *Units: 4*
- • SPED 608 - Instruction and Behavioral Supports and Strategies: Moderate-Severe Disabilities
Units: 4
- • SPED 609 - Advanced Assessment and Curriculum: Moderate-Severe Disabilities *Units: 4*
- • SPED 610 - Research and Professional Practices *Units: 4*
- • SPED 611 - Fieldwork I: Mild/Moderate Disabilities *Units: 3*
- • SPED 612 - Fieldwork II: Mild/Moderate Disabilities *Units: 3*
- • SPED 613 - Final Student Teaching: Mild/Moderate Disabilities *Units: 6*
- • SPED 615 - Fieldwork I: Moderate-Severe Disabilities *Units: 3*
- • SPED 616 - Fieldwork II: Moderate-Severe Disabilities *Units: 3*
- • SPED 617 - Final Student Teaching: Moderate-Severe Disabilities *Units: 6*
- • SPED 693 - Capstone Research Project *Units: 4*
- • SPED 695 - Special Education Internship *Units: 2*
- • SPED 697 - Issues in Special Education *Units: 2*

Education Specialist Credential in Moderate/Severe Disabilities

Education Specialist Credential

The Education Specialist Credential, in either Mild/Moderate Disabilities or Moderate/Severe Disabilities, prepares candidates for a career in teaching, additional service delivery, implementation of supports and leadership roles in special education. Content courses containing the latest in research and evidence-based practices and fieldwork experiences provide candidates with a wide range of practical methods for enhancing the lives of individuals with exceptional needs, their families and communities. The program provides extensive supervised fieldwork by Cal State East Bay faculty and successful practitioners in settings that are appropriate to a candidate's professional goals.

While completing the requirements for the Education Specialist credential, candidates will concurrently complete the requirements for the M.S. Special Education program:

Special Education, M.S.: Mild/Moderate Disabilities Concentration

Special Education, M.S.: Moderate/Severe Disabilities Concentration

Admission Requirements

1. Bachelor's degree from an accredited university
2. Department Application
3. University Application^[1]_{SEP}
4. Minimum of 3.0 cumulative GPA
5. Statement of Purpose

Additional Credential Requirements

1. Basic educational skills test approved by the California Commission on Teacher Credentialing (CTC).
2. Pass the Multiple Subject California Subject Examination for Teachers (CSET) or obtain a waiver for the CSET by completing an approved subject matter preparation program at a CSU.
3. Two letters of recommendation.
4. U.S. Constitution course or exam.
5. Certificate of Clearance.
6. Tuberculosis test.

Prerequisites

The 4-unit prerequisite is not included in the credential's total units.

- SPED 500 - Educating All Learners in Diverse Classrooms *Units: 4*

Credential Requirements

The following 35 units of coursework are required for the credential and are concurrent with the M.S. Special Education, Moderate/Severe Disabilities Concentration requirements:

- SPED 602 - Evidence-based Practices: Moderate/Severe Disabilities *Units: 4*
- SPED 603 - Teaming, Collaborative Educational Processes and Transition Services *Units: 4*
- SPED 604 - Individual and School-Wide Behavioral Needs, Mental Health & Positive Supports *Units: 4*
- SPED 605 - Communication and Technology *Units: 4*
- SPED 608 - Instruction and Behavioral Supports and Strategies: Moderate-Severe Disabilities *Units: 4*
- SPED 609 - Advanced Assessment and Curriculum: Moderate-Severe Disabilities *Units: 4*
- SPED 610 - Research and Professional Practices *Units: 4*
- SPED 615 - Fieldwork I: Moderate-Severe Disabilities *Units: 3*
- SPED 693 - Capstone Research Project *Units: 4*

The following 9 units of additional coursework are required for the Moderate/Severe Disabilities Credential:

- SPED 616 - Fieldwork II: Moderate-Severe Disabilities *Units: 3*
- SPED 617 - Final Student Teaching: Moderate-Severe Disabilities *Units: 6*

Department Courses Listed by Course Type

Educational Psychology Courses

Department of Educational Psychology

Go to information for this department.

Courses

Educational Psychology

- EPSY 101 - Career Planning For College Students *Units: 2 ; G.E./G.R. Area: E*
- EPSY 230 - Strategies for Lifespan Mental Health *Units: 3*
- EPSY 301 - Orientation to Careers in Counseling *Units: 3*
- EPSY 497 - Issues in Educational Psychology *Units: 3*

Educational Psychology: Graduate

- EPSY 630 - Law, Ethics and Professional Issues *Units: 3*
- EPSY 631 - Intimate Partner Violence *Units: 1*
- EPSY 632 - Child Abuse Assessment and Reporting *Units: 1*
- EPSY 633 - Substance Abuse *Units: 3*
- EPSY 634 - Family and Life Cycle Development *Units: 3*
- EPSY 635 - Pre-Practicum Microcounseling Skills in Relational Practice *Units: 2*
- EPSY 636 - Counseling Theories *Units: 3*
- EPSY 637 - Multicultural Counseling *Units: 3*
- EPSY 638 - Psychopathology *Units: 3*
- EPSY 639 - Community Mental Health Counseling *Units: 3*
- EPSY 641 - Child and Youth Psychotherapy *Units: 3*
- EPSY 642 - Grief, Trauma, and Crisis Counseling *Units: 2*
- EPSY 643 - Family Therapy *Units: 3*
- EPSY 644 - Pre-Practicum Microcounseling Skills in Relational Practice II *Units: 2*
- EPSY 645 - Introduction to Systemic-Relational Practice *Units: 2*
- EPSY 646 - Contemporary Issues: Aging & Long-Term Care *Units: 2*
- EPSY 647 - Psychopharmacology *Units: 3*
- EPSY 648 - Assessment and Testing *Units: 3*
- EPSY 650 - Group Counseling Theory and Practice *Units: 3*
- EPSY 651 - Research Methods for Evidenced-Based Practice and Advocacy *Units: 3*
- EPSY 652 - Human Sexuality and Gender *Units: 1*
- EPSY 653 - Couples Therapy *Units: 3*
- EPSY 654 - Career Counseling *Units: 3*
- EPSY 655 - Advanced Pupil Personnel Services *Units: 3*
- EPSY 660 - Clinic Rounds *Units: 3*
- EPSY 661 - Academic Counseling *Units: 3*
- EPSY 662 - Cognitive Behavior Therapy *Units: 3*
- EPSY 663 - Psychoeducational Report Writing *Units: 3*
- EPSY 664 - Diverse Needs in School Counseling *Units: 2*
- EPSY 665 - Leadership, Advocacy, and Wellness *Units: 2*
- EPSY 666 - Psychological Services in School Psychology *Units: 1*
- EPSY 668 - Social and Emotional Assessment *Units: 3*
- EPSY 669 - Moderate/Severe Disability Identification and Intervention *Units: 3*
- EPSY 671 - Academic/Behavioral Assessment and Interventions *Units: 3*
- EPSY 672 - Cognitive and Developmental Assessment *Units: 5*
- EPSY 673 - Assessment of English Language Learners *Units: 1*
- EPSY 674 - Lab: Psychoeducational Report Writing *Units: 2*
- EPSY 678 - School Psychology Practicum: First-Year Supervision *Units: 3*
- EPSY 679 - School Psychology Advanced Practicum: Second-Year Supervision *Units: 3*
- EPSY 680 - School Psychology Internship Supervision *Units: 6*
- EPSY 681 - Foundations in School Counseling *Units: 3*

- • EPSY 682 - Mental Health Consultation in Schools *Units: 3*
- • EPSY 683 - Crisis in Schools and Mental Health Settings *Units: 2*
- • EPSY 684 - Neuropsychology of Learning Disorders *Units: 4*
- • EPSY 685 - Advanced Service Delivery in School Psychology *Units: 3*
- • EPSY 690 - Independent Study *Units: 1-4*
- • EPSY 692 - Action Research and Comprehensive Evaluation *Units: 3*
- • EPSY 693A - Project in Marriage and Family Therapy *Units: 4*
- • EPSY 693B - Project in School Counseling *Units: 4*
- • EPSY 693C - Project in School Psychology *Units: 4*
- • EPSY 695 - Practicum *Units: 1-4*
- • EPSY 696 - Advanced Practicum *Units: 3*
- • EPSY 697 - Issues in Educational Psychology *Units: 2*
- • EPSY 698 - Internship *Units: 1-3*
- • SPED 500 - Educating All Learners in Diverse Classrooms *Units: 4*
- • SPED 601 - Educational Practices: Mild/Moderate Disabilities *Units: 4*
- • SPED 602 - Evidence-based Practices: Moderate/Severe Disabilities *Units: 4*
- • SPED 603 - Teaming, Collaborative Educational Processes and Transition Services *Units: 4*
- • SPED 604 - Individual and School-Wide Behavioral Needs, Mental Health & Positive Supports
Units: 4
- • SPED 605 - Communication and Technology *Units: 4*
- • SPED 606 - Assessment: Students with Mild/Moderate Disabilities *Units: 4*
- • SPED 607 - Curriculum and Instruction: Students with Mild/Moderate Disabilities *Units: 4*
- • SPED 608 - Instruction and Behavioral Supports and Strategies: Moderate-Severe Disabilities
Units: 4
- • SPED 609 - Advanced Assessment and Curriculum: Moderate-Severe Disabilities *Units: 4*
- • SPED 610 - Research and Professional Practices *Units: 4*
- • SPED 611 - Fieldwork I: Mild/Moderate Disabilities *Units: 3*
- • SPED 612 - Fieldwork II: Mild/Moderate Disabilities *Units: 3*
- • SPED 613 - Final Student Teaching: Mild/Moderate Disabilities *Units: 6*
- • SPED 615 - Fieldwork I: Moderate-Severe Disabilities *Units: 3*
- • SPED 616 - Fieldwork II: Moderate-Severe Disabilities *Units: 3*
- • SPED 617 - Final Student Teaching: Moderate-Severe Disabilities *Units: 6*
- • SPED 693 - Capstone Research Project *Units: 4*
- • SPED 695 - Special Education Internship *Units: 2*
- • SPED 697 - Issues in Special Education *Units: 2*

Pupil Personnel Services Credential: School Counseling Specialization

Pupil Personnel Services Credential: School Counseling Specialization Program

Program Description

The School Counseling Specialization is required to work as a school counselor in CA public schools. It is approved by the California Commission of Teacher Credentialing (CTC). The CTC sets the standards and competencies for the state, and Cal State East Bay's program is designed to incorporate all knowledge, skills and practical experiences required to meet those expectations.

The School Counseling Credential program is a two-year course of study that reflects an integration of local program needs, the campus mission, and the direction provided by the National Standards and

National Model of the American School Counselor Association (ASCA) and the National Career Development Guidelines (NOICC). The program is designed to train competent practitioners who are prepared to be leaders in building comprehensive, results-based school counseling programs that serve the needs of all pupils.

The School Counseling Credential program includes specific training in guidance program models, guidance program development and implementation, and in the comprehensive and developmental school guidance curricula for academic, career, and personal/social development. Students also learn team building, management, and accountability for a comprehensive guidance program.

Admission Requirements

1. Baccalaureate degree from an accredited institution.
2. University application.
3. Department application.
4. Official transcripts sent to both the University and the Department of Educational Psychology.
5. Three academic professional references.
6. Basic Skills requirement.
7. Certificate of Clearance.
8. A personal statement.
9. Graduate Record Examination (GRE) score report.
10. Complete the prerequisite coursework for the program before Educational Psychology courses begin in fall.

Pupil Personnel Services Credential: School Counseling Specialization Requirements (48 units)

Prerequisite Coursework

The following 0-11 units of prerequisites or their equivalents must be met prior to program admission. Generally prerequisite units are not counted toward the credential. See your department advisor for more information:

- PSYC 340 - Developmental Psychology *Units: 4*
- PSYC 381 - Psychopathology *Units: 4*
- STAT 100 - Elements of Statistics and Probability *Units: 3 ; G.E./G.R. Area: B4*

Required Specialization Coursework

The following 30 units of specialization coursework are required:

- EPSY 660 - Clinic Rounds *Units: 3 (must be taken twice for 6 units)*
- EPSY 648 - Assessment and Testing *Units: 3*
- EPSY 655 - Advanced Pupil Personnel Services *Units: 3*
- EPSY 681 - Foundations in School Counseling *Units: 3*
- EPSY 692 - Action Research and Comprehensive Evaluation *Units: 3*
- EPSY 695 - Practicum *Units: 1-4 (must be taken twice for 6 units)*

- EPSY 696 - Advanced Practicum *Units: 3 (must be taken twice for 6 units)*

Other Required Coursework

This coursework is common with the School Counseling concentration within the Master's in Counseling program. All the following 18 units are also required for the credential.

- EPSY 654 - Career Counseling *Units: 3*
- EPSY 661 - Academic Counseling *Units: 3*
- EPSY 662 - Cognitive Behavior Therapy *Units: 3*
- EPSY 664 - Diverse Needs in School Counseling *Units: 2*
- EPSY 665 - Leadership, Advocacy, and Wellness *Units: 2*
- EPSY 682 - Mental Health Consultation in Schools *Units: 3*
- EPSY 683 - Crisis in Schools and Mental Health Settings *Units: 2*

Other Graduate & Post-Baccalaureate Degree Requirements

In addition to departmental requirements, every student must also satisfy the University requirements for graduation as described throughout this catalog. These include the 70% unit residence requirement; the five-year rule on currency of subject matter; the minimum number of units in 600-level courses; the "C" minimum grade for each graduate course; the 3.00 cumulative grade point average; and the University Writing Skills Requirement.

Note: For information on meeting the University Writing Skills Requirement, see the Testing Office website at www.csueastbay.edu/testing or call (510) 885-3661.

Department Courses Listed by Course Type

Educational Psychology Courses

Department of Educational Psychology

Go to information for this department.

Courses

Educational Psychology

- EPSY 101 - Career Planning For College Students *Units: 2 ; G.E./G.R. Area: E*
- EPSY 230 - Strategies for Lifespan Mental Health *Units: 3*
- EPSY 301 - Orientation to Careers in Counseling *Units: 3*
- EPSY 497 - Issues in Educational Psychology *Units: 3*

Educational Psychology: Graduate

- EPSY 630 - Law, Ethics and Professional Issues *Units: 3*
- EPSY 631 - Intimate Partner Violence *Units: 1*
- EPSY 632 - Child Abuse Assessment and Reporting *Units: 1*
- EPSY 633 - Substance Abuse *Units: 3*

- • EPSY 634 - Family and Life Cycle Development *Units: 3*
- • EPSY 635 - Pre-Practicum Microcounseling Skills in Relational Practice *Units: 2*
- • EPSY 636 - Counseling Theories *Units: 3*
- • EPSY 637 - Multicultural Counseling *Units: 3*
- • EPSY 638 - Psychopathology *Units: 3*
- • EPSY 639 - Community Mental Health Counseling *Units: 3*
- • EPSY 641 - Child and Youth Psychotherapy *Units: 3*
- • EPSY 642 - Grief, Trauma, and Crisis Counseling *Units: 2*
- • EPSY 643 - Family Therapy *Units: 3*
- • EPSY 644 - Pre-Practicum Microcounseling Skills in Relational Practice II *Units: 2*
- • EPSY 645 - Introduction to Systemic-Relational Practice *Units: 2*
- • EPSY 646 - Contemporary Issues: Aging & Long-Term Care *Units: 2*
- • EPSY 647 - Psychopharmacology *Units: 3*
- • EPSY 648 - Assessment and Testing *Units: 3*
- • EPSY 650 - Group Counseling Theory and Practice *Units: 3*
- • EPSY 651 - Research Methods for Evidenced-Based Practice and Advocacy *Units: 3*
- • EPSY 652 - Human Sexuality and Gender *Units: 1*
- • EPSY 653 - Couples Therapy *Units: 3*
- • EPSY 654 - Career Counseling *Units: 3*
- • EPSY 655 - Advanced Pupil Personnel Services *Units: 3*
- • EPSY 660 - Clinic Rounds *Units: 3*
- • EPSY 661 - Academic Counseling *Units: 3*
- • EPSY 662 - Cognitive Behavior Therapy *Units: 3*
- • EPSY 663 - Psychoeducational Report Writing *Units: 3*
- • EPSY 664 - Diverse Needs in School Counseling *Units: 2*
- • EPSY 665 - Leadership, Advocacy, and Wellness *Units: 2*
- • EPSY 666 - Psychological Services in School Psychology *Units: 1*
- • EPSY 668 - Social and Emotional Assessment *Units: 3*
- • EPSY 669 - Moderate/Severe Disability Identification and Intervention *Units: 3*
- • EPSY 671 - Academic/Behavioral Assessment and Interventions *Units: 3*
- • EPSY 672 - Cognitive and Developmental Assessment *Units: 5*
- • EPSY 673 - Assessment of English Language Learners *Units: 1*
- • EPSY 674 - Lab: Psychoeducational Report Writing *Units: 2*
- • EPSY 678 - School Psychology Practicum: First-Year Supervision *Units: 3*
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- • EPSY 692 - Action Research and Comprehensive Evaluation *Units: 3*
- • EPSY 693A - Project in Marriage and Family Therapy *Units: 4*
- • EPSY 693B - Project in School Counseling *Units: 4*
- • EPSY 693C - Project in School Psychology *Units: 4*
- • EPSY 695 - Practicum *Units: 1-4*
- • EPSY 696 - Advanced Practicum *Units: 3*
- • EPSY 697 - Issues in Educational Psychology *Units: 2*
- • EPSY 698 - Internship *Units: 1-3*
- • SPED 500 - Educating All Learners in Diverse Classrooms *Units: 4*

- • SPED 601 - Educational Practices: Mild/Moderate Disabilities *Units: 4*
- • SPED 602 - Evidence-based Practices: Moderate/Severe Disabilities *Units: 4*
- • SPED 603 - Teaming, Collaborative Educational Processes and Transition Services *Units: 4*
- • SPED 604 - Individual and School-Wide Behavioral Needs, Mental Health & Positive Supports
Units: 4
- • SPED 605 - Communication and Technology *Units: 4*
- • SPED 606 - Assessment: Students with Mild/Moderate Disabilities *Units: 4*
- • SPED 607 - Curriculum and Instruction: Students with Mild/Moderate Disabilities *Units: 4*
- • SPED 608 - Instruction and Behavioral Supports and Strategies: Moderate-Severe Disabilities
Units: 4
- • SPED 609 - Advanced Assessment and Curriculum: Moderate-Severe Disabilities *Units: 4*
- • SPED 610 - Research and Professional Practices *Units: 4*
- • SPED 611 - Fieldwork I: Mild/Moderate Disabilities *Units: 3*
- • SPED 612 - Fieldwork II: Mild/Moderate Disabilities *Units: 3*
- • SPED 613 - Final Student Teaching: Mild/Moderate Disabilities *Units: 6*
- • SPED 615 - Fieldwork I: Moderate-Severe Disabilities *Units: 3*
- • SPED 616 - Fieldwork II: Moderate-Severe Disabilities *Units: 3*
- • SPED 617 - Final Student Teaching: Moderate-Severe Disabilities *Units: 6*
- • SPED 693 - Capstone Research Project *Units: 4*
- • SPED 695 - Special Education Internship *Units: 2*
- • SPED 697 - Issues in Special Education *Units: 2*

Pupil Personnel Services Credential: School Psychology Specialization

Pupil Personnel Services Credential: School Psychology Specialization Program

Program Description

The School Psychology program at CSU East Bay is a three-year, full-time program that is nationally accredited by the National Association of School Psychologists (NASP). The program emphasizes social justice applied to schools and provides a supportive cohort model. A cohort model is one whereby each entry group of graduate students takes the same classes together and learns collaboratively. The program is approved by the California Commission on Teacher Credentialing (CTC) which sets the standards for the Pupil Personnel Services Credential in School Psychology. Faculty recommend student candidates for the credential who successfully meet requirements for academic courses (e.g., grades of "B" or better, school-based service learning experiences, professional performance, passing scores on the Praxis II Examination in School Psychology, and a culminating portfolio project).

The US News and World Report rated school psychology as the number one social service job in 2017. California State University East Bay's School Psychology credential program prepares professionals to make a difference in their communities through Intervention, Consultation, Assessment, Research, and Education. School Psychology Credential students are professionals-in-training who begin working in the schools at the very beginning of the program and have fieldwork opportunities in more than 20 culturally and linguistically diverse Bay Area school districts.

Admission Requirements

1. Baccalaureate degree from an accredited institution.

2. University application.
3. Department application.
4. Official transcripts sent to both the University and the Department of Educational Psychology.
5. Three academic professional references.
6. Basic Skills requirement
7. Certificate of Clearance
8. A personal statement.
9. Graduate Record Examination (GRE) score report.
10. Complete the prerequisite coursework before Educational Psychology courses begin in fall.

Pupil Personnel Services Credential: School Psychology Specialization Requirements (65 units)

Prerequisite Coursework

The following 0-19 units of prerequisites or their equivalents must be met prior to program admission. Generally prerequisite units are not counted toward the credential. See your department advisor for more information:

- PSYC 340 - Developmental Psychology *Units: 4*
- PSYC 370 - Psychological Measurement *Units: 4*
- PSYC 381 - Psychopathology *Units: 4*
- PSYC 412 - Learning Theory *Units: 4*
- STAT 100 - Elements of Statistics and Probability *Units: 3 ; G.E./G.R. Area: B4*

Required Specialization Coursework

The following 47 units of specialization coursework are required:

- EPSY 660 - Clinic Rounds *Units: 3*
- EPSY 668 - Social and Emotional Assessment *Units: 3*
- EPSY 669 - Moderate/Severe Disability Identification and Intervention *Units: 3*
- EPSY 671 - Academic/Behavioral Assessment and Interventions *Units: 3*
- EPSY 674 - Lab: Psychoeducational Report Writing *Units: 2*
- EPSY 678 - School Psychology Practicum: First-Year Supervision *Units: 3*
(must be taken twice for 6 units)
- EPSY 679 - School Psychology Advanced Practicum: Second-Year Supervision *Units: 3* (must be taken twice for 6 units)
- EPSY 680 - School Psychology Internship Supervision *Units: 6* (must be taken twice for 12 units)
- EPSY 684 - Neuropsychology of Learning Disorders *Units: 4*
- EPSY 685 - Advanced Service Delivery in School Psychology *Units: 3*
- EPSY 692 - Action Research and Comprehensive Evaluation *Units: 3*

Other Required Coursework

This coursework is common with the School Psychology concentration within the Master's in Counseling program. All the following 18 units are also required for the credential.

- EPSY 662 - Cognitive Behavior Therapy *Units: 3*
- EPSY 663 - Psychoeducational Report Writing *Units: 3*
- EPSY 666 - Psychological Services in School Psychology *Units: 1*
- EPSY 672 - Cognitive and Developmental Assessment *Units: 5*
- EPSY 673 - Assessment of English Language Learners *Units: 1*
- EPSY 682 - Mental Health Consultation in Schools *Units: 3*
- EPSY 683 - Crisis in Schools and Mental Health Settings *Units: 2*

Other Graduate & Post-Baccalaureate Degree Requirements

In addition to departmental requirements, every student must also satisfy the University requirements for graduation as described throughout this catalog. These include the 70% unit residence requirement; the five-year rule on currency of subject matter; the minimum number of units in 600-level courses; the "C" minimum grade for each graduate course; the 3.00 cumulative grade point average; and the University Writing Skills Requirement.

Note: For information on meeting the University Writing Skills Requirement, see the Testing Office website at www.csueastbay.edu/testing or call (510) 885-3661.

Department Courses Listed by Course Type

Educational Psychology Courses

Department of Educational Psychology

Go to information for this department.

Courses

Educational Psychology

- EPSY 101 - Career Planning For College Students *Units: 2 ; G.E./G.R. Area: E*
- EPSY 230 - Strategies for Lifespan Mental Health *Units: 3*
- EPSY 301 - Orientation to Careers in Counseling *Units: 3*
- EPSY 497 - Issues in Educational Psychology *Units: 3*

Educational Psychology: Graduate

- EPSY 630 - Law, Ethics and Professional Issues *Units: 3*
- EPSY 631 - Intimate Partner Violence *Units: 1*
- EPSY 632 - Child Abuse Assessment and Reporting *Units: 1*
- EPSY 633 - Substance Abuse *Units: 3*
- EPSY 634 - Family and Life Cycle Development *Units: 3*
- EPSY 635 - Pre-Practicum Microcounseling Skills in Relational Practice *Units: 2*
- EPSY 636 - Counseling Theories *Units: 3*
- EPSY 637 - Multicultural Counseling *Units: 3*
- EPSY 638 - Psychopathology *Units: 3*

- • EPSY 639 - Community Mental Health Counseling *Units: 3*
- • EPSY 641 - Child and Youth Psychotherapy *Units: 3*
- • EPSY 642 - Grief, Trauma, and Crisis Counseling *Units: 2*
- • EPSY 643 - Family Therapy *Units: 3*
- • EPSY 644 - Pre-Practicum Microcounseling Skills in Relational Practice II *Units: 2*
- • EPSY 645 - Introduction to Systemic-Relational Practice *Units: 2*
- • EPSY 646 - Contemporary Issues: Aging & Long-Term Care *Units: 2*
- • EPSY 647 - Psychopharmacology *Units: 3*
- • EPSY 648 - Assessment and Testing *Units: 3*
- • EPSY 650 - Group Counseling Theory and Practice *Units: 3*
- • EPSY 651 - Research Methods for Evidenced-Based Practice and Advocacy *Units: 3*
- • EPSY 652 - Human Sexuality and Gender *Units: 1*
- • EPSY 653 - Couples Therapy *Units: 3*
- • EPSY 654 - Career Counseling *Units: 3*
- • EPSY 655 - Advanced Pupil Personnel Services *Units: 3*
- • EPSY 660 - Clinic Rounds *Units: 3*
- • EPSY 661 - Academic Counseling *Units: 3*
- • EPSY 662 - Cognitive Behavior Therapy *Units: 3*
- • EPSY 663 - Psychoeducational Report Writing *Units: 3*
- • EPSY 664 - Diverse Needs in School Counseling *Units: 2*
- • EPSY 665 - Leadership, Advocacy, and Wellness *Units: 2*
- • EPSY 666 - Psychological Services in School Psychology *Units: 1*
- • EPSY 668 - Social and Emotional Assessment *Units: 3*
- • EPSY 669 - Moderate/Severe Disability Identification and Intervention *Units: 3*
- • EPSY 671 - Academic/Behavioral Assessment and Interventions *Units: 3*
- • EPSY 672 - Cognitive and Developmental Assessment *Units: 5*
- • EPSY 673 - Assessment of English Language Learners *Units: 1*
- • EPSY 674 - Lab: Psychoeducational Report Writing *Units: 2*
- • EPSY 678 - School Psychology Practicum: First-Year Supervision *Units: 3*
- • EPSY 679 - School Psychology Advanced Practicum: Second-Year Supervision *Units: 3*
- • EPSY 680 - School Psychology Internship Supervision *Units: 6*
- • EPSY 681 - Foundations in School Counseling *Units: 3*
- • EPSY 682 - Mental Health Consultation in Schools *Units: 3*
- • EPSY 683 - Crisis in Schools and Mental Health Settings *Units: 2*
- • EPSY 684 - Neuropsychology of Learning Disorders *Units: 4*
- • EPSY 685 - Advanced Service Delivery in School Psychology *Units: 3*
- • EPSY 690 - Independent Study *Units: 1-4*
- • EPSY 692 - Action Research and Comprehensive Evaluation *Units: 3*
- • EPSY 693A - Project in Marriage and Family Therapy *Units: 4*
- • EPSY 693B - Project in School Counseling *Units: 4*
- • EPSY 693C - Project in School Psychology *Units: 4*
- • EPSY 695 - Practicum *Units: 1-4*
- • EPSY 696 - Advanced Practicum *Units: 3*
- • EPSY 697 - Issues in Educational Psychology *Units: 2*
- • EPSY 698 - Internship *Units: 1-3*
- • SPED 500 - Educating All Learners in Diverse Classrooms *Units: 4*
- • SPED 601 - Educational Practices: Mild/Moderate Disabilities *Units: 4*
- • SPED 602 - Evidence-based Practices: Moderate/Severe Disabilities *Units: 4*
- • SPED 603 - Teaming, Collaborative Educational Processes and Transition Services *Units: 4*
- • SPED 604 - Individual and School-Wide Behavioral Needs, Mental Health & Positive Supports

Units: 4

- • SPED 605 - Communication and Technology *Units: 4*
- • SPED 606 - Assessment: Students with Mild/Moderate Disabilities *Units: 4*
- • SPED 607 - Curriculum and Instruction: Students with Mild/Moderate Disabilities *Units: 4*
- • SPED 608 - Instruction and Behavioral Supports and Strategies: Moderate-Severe Disabilities *Units: 4*
- • SPED 609 - Advanced Assessment and Curriculum: Moderate-Severe Disabilities *Units: 4*
- • SPED 610 - Research and Professional Practices *Units: 4*
- • SPED 611 - Fieldwork I: Mild/Moderate Disabilities *Units: 3*
- • SPED 612 - Fieldwork II: Mild/Moderate Disabilities *Units: 3*
- • SPED 613 - Final Student Teaching: Mild/Moderate Disabilities *Units: 6*
- • SPED 615 - Fieldwork I: Moderate-Severe Disabilities *Units: 3*
- • SPED 616 - Fieldwork II: Moderate-Severe Disabilities *Units: 3*
- • SPED 617 - Final Student Teaching: Moderate-Severe Disabilities *Units: 6*
- • SPED 693 - Capstone Research Project *Units: 4*
- • SPED 695 - Special Education Internship *Units: 2*
- • SPED 697 - Issues in Special Education *Units: 2*

Master

Counseling, M.S.: Marriage and Family Therapy Concentration

Counseling, M.S. Program

Program Description

The Master of Science in Counseling degree requires 60 units organized according to university and degree program requirements. Requirements are established to ensure that each degree candidate obtains adequate breadth in subject matter, field experiences, and research.

Students interested in the Pupil Personnel Service Credential in School Counseling or School Psychology, please refer to their individual program pages.

CSU East Bay offers three concentrations within the M.S. in Counseling. Individuals interested in a M.S. in Counseling degree must enroll in one of the following:

Marriage and Family Therapy Concentration

The primary focus of the concentration is to train psychotherapists who eventually plan to obtain a California Marriage and Family Therapy (MFT) and/or a Licensed Professional Clinical Counselor (LPCC) internship license. Additional units may be taken to meet the requirements for the LPCC and the MFT internship. (See BBS Sections 4980.37, 4980.41 (a)(4)&(5) for MFT and 4999.33 for LPCC.).

These additional LPCC courses lead to completion of the required hours of clinical experience for the license application.

The MFT course work is geared towards a relational approach to counseling that focuses on multicultural diversity, collaborative treatment, wellness, resiliency, and recovery. Faculty orient students to promote resilience and practice strength-based interventions. Course work combined with clinical practicum training in the field prepares graduates to work from a relational perspective.

School Counseling Concentration

The School Counseling concentration is a full-time, two-year course of study. Courses are offered during the day, in the evening, and on weekends.

School Counseling reflects an integration of local program needs, the campus mission, and the direction provided by the National Standards and National Model of the American School Counselor Association (ASCA) and the National Career Development Guidelines (NOICC).

Students acquire the skills to develop curriculum for small-group guidance, conduct individual and group therapy, and provide consultation and leadership in the creation and evaluation of integrated, comprehensive prevention and intervention programs.

School Psychology Concentration

The School Psychology concentration is nationally accredited by the National Association of School Psychologists (NASP).

The philosophy of the School Psychology concentration is to train graduate students in evidenced-based practice to promote social justice and equity to diverse school communities. Social justice is the call to provide all pupils with the support, skills, and services they need to reach their full potential in spite of poverty and other significant challenges. The School Psychology concentration is committed to the academic and social-emotional development of children, families and communities. Thus, we strive to promote a strong professional identity in School Psychology while providing a core of shared learning experiences.

The goals of the concentration are to provide clinical training, instruction, field-based placements, and cohort learning opportunities to promote four levels of trainee development; 1) Foundation for Clinical Practice, 2) Professional Skills and Knowledge, 3) Demonstration of Competency, and 4) Professional Identity. Although each area is introduced at different points of the program, levels of development and knowledge based content are continuously revisited and integrated into group and individual discussion and reflection. In addition, coursework continues to build as trainees demonstrate competence in service delivery.

Career Opportunities

Marriage and Family Therapy (MFT)

The MFT concentration prepares graduate students for clinical work in a wide variety of settings, such as community mental health based and county agencies, schools and universities, hospitals, business and industry, and private practice.

Graduates have been hired in a wide range of agencies and businesses. Some are counselors in junior colleges and college counseling settings, Others are drug and alcohol abuse counselors in hospitals, family therapists on-site in schools, advocates for the mentally ill, therapists working with chronically ill and they elderly, child therapists in therapeutic nursery schools, assessment counselors, information and referral clinicians in employment assistance programs, individual and family therapists for police departments, grief counselors, organizational development specialists, and human resource professionals in business and industry.

School Counseling

Graduates of the MS in Counseling with a concentration in School Counseling often work in community agencies. Other graduates have been hired in agencies and businesses and other diverse settings, such

as counselors in junior colleges, colleges, drug and alcohol abuse counselors in hospitals, and as advocates for mentally ill persons. Additional courses taken for the Pupil Personnel Services (PPS) Credential required by the California Commission on Teacher Credentialing (CTC) and coursework required by the Board of Behavioral Sciences (BBS) may lead to positions providing mental health services and guidance support for students in K-12 schools, careers as child therapists in therapeutic nursery schools, assessment counselors, information and referral clinicians in employee assistance programs, individual and family therapists for police departments, organizational development specialists, and human resource professionals. Some graduates have pursued doctoral-level work in clinical and counseling psychology or education after completing their master's degree in this program.

School Psychology

The M.S. Counseling, School Psychology concentration prepares graduates for careers as educational interventionists and counselors in hospitals and mental health organizations. According to the US News and World Report's on-line career review, it is a top social service prospect for the future. Additional courses taken for the Pupil Personnel Services (PPS) Credential required by the California Commission on Teacher Credentialing (CTC) and coursework required by the Board of Behavioral Sciences (BBS) may lead to leadership positions in culturally and linguistically diverse K-12 schools. The additional PPS specialization courses also prepare graduates to make a difference in their communities through providing mental health services and advocacy.

M.S. in Counseling Admission Requirements

- Bachelor's degree from an accredited university
- Cumulative undergraduate GPA of 3.0
- University application (submitted via CSU online application)
- Department application
- Personal Statement
- Writing sample
- Three letters of reference
- Graduate Record Examination (GRE)
- Prerequisites (see curriculum requirements below) are not required for admission, but must be completed prior to start of graduate coursework in the Fall term of admission to the program.

Student Standing and Progress

The MS in Counseling requires demonstration of the following:

- Completion of all coursework toward the degree with a grade of B or higher in each course.
- Completion of the University Writing Skills Test (WST) requirement.

Advancement to Candidacy

- Satisfactory evaluations from field and University supervisors/professors
- Demonstration of ethical and professional program expectations and dispositions program requirements
- Completion of required field-based practicum hours.
- A passing grade on the Praxis test for the School Counseling and School Psychology concentrations.

Program Learning Outcomes

Upon completion of the CSUEB Master of Counseling, graduates will be able to:

1. demonstrate a knowledge of systems theories and be able to successfully apply theories in clinical practice.
2. demonstrate an awareness of diversity and social justice issues, as well as demonstrate competence in working with diverse populations.
3. demonstrate ethical and legal professional practice by identifying and applying ethical and legal standards applied to counseling, assessment, intervention, and consultation.
4. effectively and clearly communicate with all stakeholders.

Counseling Degree Requirements (60-61 units)

Prerequisites or Foundation Requirements

The prerequisites or foundation coursework below (or their equivalents) are required for all students in the M.S. in Counseling program. Please check concentration requirements for additional prerequisites. Prerequisites must be completed before beginning graduate-level coursework. This area may require 0-11 units that are not included in the major units:

- PSYC 381 - Psychopathology *Units: 4*
- PSYC 340 - Developmental Psychology *Units: 4*
- STAT 100 - Elements of Statistics and Probability *Units: 3 ; G.E./G.R. Area: B4*

Required Core Courses

The following 38 units are required for all students:

- EPSY 630 - Law, Ethics and Professional Issues *Units: 3*
- EPSY 631 - Intimate Partner Violence *Units: 1*
- EPSY 632 - Child Abuse Assessment and Reporting *Units: 1*
- EPSY 633 - Substance Abuse *Units: 3*
- EPSY 635 - Pre-Practicum Microcounseling Skills in Relational Practice
Units: 2
- EPSY 636 - Counseling Theories *Units: 3*
- EPSY 637 - Multicultural Counseling *Units: 3*
- EPSY 638 - Psychopathology *Units: 3*
- EPSY 639 - Community Mental Health Counseling *Units: 3*
- EPSY 641 - Child and Youth Psychotherapy *Units: 3*
- EPSY 643 - Family Therapy *Units: 3*
- EPSY 647 - Psychopharmacology *Units: 3*
- EPSY 650 - Group Counseling Theory and Practice *Units: 3*
- EPSY 651 - Research Methods for Evidenced-Based Practice and
Advocacy *Units: 3*
- EPSY 652 - Human Sexuality and Gender *Units: 1*

Concentrations

Choose one (1) of the M.S. in Counseling concentrations for 18 units to complete the degree:

- Counseling, M.S.: Marriage and Family Therapy Concentration
- Counseling, M.S.: School Counseling Concentration
- Counseling, M.S.: School Psychology Concentration

Capstone Requirements

Choose one (1) of the capstone courses below for 4 units according to your concentration:

- EPSY 693A - Project in Marriage and Family Therapy *Units: 4*
- EPSY 693B - Project in School Counseling *Units: 4*
- EPSY 693C - Project in School Psychology *Units: 4*

Marriage and Family Therapy Concentration

Take the following 18 units to complete the M.S. in Counseling degree:

Required Courses

The following 18 units are required for the Marriage and Family Therapy concentration:

- EPSY 634 - Family and Life Cycle Development *Units: 3*
- EPSY 642 - Grief, Trauma, and Crisis Counseling *Units: 2*
- EPSY 645 - Introduction to Systemic-Relational Practice *Units: 2*
- EPSY 648 - Assessment and Testing *Units: 3*
- EPSY 653 - Couples Therapy *Units: 3*
- EPSY 654 - Career Counseling *Units: 3*
- EPSY 646 - Contemporary Issues: Aging & Long-Term Care *Units: 2*
- EPSY 695 - Practicum *Units: 1-4 (only one (1) unit is required for the requirement)*

Licensed Professional Clinical Counselor (Optional)

The following 12 units are not required for the MS in Counseling degree. However, students will be able to apply for the Licensed Professional Clinical Counselor license with the Board of Behavioral Sciences upon completion of these courses:

- EPSY 644 - Pre-Practicum Microcounseling Skills in Relational Practice II
Units: 2
- EPSY 695 - Practicum *Units: 1-4 (An additional 4 units of EPSY 695 must be taken for LPCC option)*
- EPSY 696 - Advanced Practicum *Units: 3 (Course must be taken twice for 6 units).*

Other Graduate & Post-Baccalaureate Degree Requirements

In addition to departmental requirements, every student must also satisfy the University requirements for graduation as described throughout this catalog. These include the 70% unit residence requirement; the five-year rule on currency of subject matter; the minimum number of units in 600-level courses; the "C" minimum grade for each graduate course; the 3.00 cumulative grade point average; and the University Writing Skills Requirement.

Note: For information on meeting the University Writing Skills Requirement, see the Testing Office website at www.csueastbay.edu/testing or call (510) 885-3661.

Department Courses Listed by Course Type

Educational Psychology Courses

Department of Educational Psychology

Go to information for this department.

Courses

Educational Psychology

- • EPSY 101 - Career Planning For College Students *Units: 2 ; G.E./G.R. Area: E*
- • EPSY 230 - Strategies for Lifespan Mental Health *Units: 3*
- • EPSY 301 - Orientation to Careers in Counseling *Units: 3*
- • EPSY 497 - Issues in Educational Psychology *Units: 3*

Educational Psychology: Graduate

- • EPSY 630 - Law, Ethics and Professional Issues *Units: 3*
- • EPSY 631 - Intimate Partner Violence *Units: 1*
- • EPSY 632 - Child Abuse Assessment and Reporting *Units: 1*
- • EPSY 633 - Substance Abuse *Units: 3*
- • EPSY 634 - Family and Life Cycle Development *Units: 3*
- • EPSY 635 - Pre-Practicum Microcounseling Skills in Relational Practice *Units: 2*
- • EPSY 636 - Counseling Theories *Units: 3*
- • EPSY 637 - Multicultural Counseling *Units: 3*
- • EPSY 638 - Psychopathology *Units: 3*
- • EPSY 639 - Community Mental Health Counseling *Units: 3*
- • EPSY 641 - Child and Youth Psychotherapy *Units: 3*
- • EPSY 642 - Grief, Trauma, and Crisis Counseling *Units: 2*
- • EPSY 643 - Family Therapy *Units: 3*
- • EPSY 644 - Pre-Practicum Microcounseling Skills in Relational Practice II *Units: 2*
- • EPSY 645 - Introduction to Systemic-Relational Practice *Units: 2*
- • EPSY 646 - Contemporary Issues: Aging & Long-Term Care *Units: 2*
- • EPSY 647 - Psychopharmacology *Units: 3*
- • EPSY 648 - Assessment and Testing *Units: 3*
- • EPSY 650 - Group Counseling Theory and Practice *Units: 3*
- • EPSY 651 - Research Methods for Evidenced-Based Practice and Advocacy *Units: 3*
- • EPSY 652 - Human Sexuality and Gender *Units: 1*
- • EPSY 653 - Couples Therapy *Units: 3*
- • EPSY 654 - Career Counseling *Units: 3*

- • EPSY 655 - Advanced Pupil Personnel Services *Units: 3*
- • EPSY 660 - Clinic Rounds *Units: 3*
- • EPSY 661 - Academic Counseling *Units: 3*
- • EPSY 662 - Cognitive Behavior Therapy *Units: 3*
- • EPSY 663 - Psychoeducational Report Writing *Units: 3*
- • EPSY 664 - Diverse Needs in School Counseling *Units: 2*
- • EPSY 665 - Leadership, Advocacy, and Wellness *Units: 2*
- • EPSY 666 - Psychological Services in School Psychology *Units: 1*
- • EPSY 668 - Social and Emotional Assessment *Units: 3*
- • EPSY 669 - Moderate/Severe Disability Identification and Intervention *Units: 3*
- • EPSY 671 - Academic/Behavioral Assessment and Interventions *Units: 3*
- • EPSY 672 - Cognitive and Developmental Assessment *Units: 5*
- • EPSY 673 - Assessment of English Language Learners *Units: 1*
- • EPSY 674 - Lab: Psychoeducational Report Writing *Units: 2*
- • EPSY 678 - School Psychology Practicum: First-Year Supervision *Units: 3*
- • EPSY 679 - School Psychology Advanced Practicum: Second-Year Supervision *Units: 3*
- • EPSY 680 - School Psychology Internship Supervision *Units: 6*
- • EPSY 681 - Foundations in School Counseling *Units: 3*
- • EPSY 682 - Mental Health Consultation in Schools *Units: 3*
- • EPSY 683 - Crisis in Schools and Mental Health Settings *Units: 2*
- • EPSY 684 - Neuropsychology of Learning Disorders *Units: 4*
- • EPSY 685 - Advanced Service Delivery in School Psychology *Units: 3*
- • EPSY 690 - Independent Study *Units: 1-4*
- • EPSY 692 - Action Research and Comprehensive Evaluation *Units: 3*
- • EPSY 693A - Project in Marriage and Family Therapy *Units: 4*
- • EPSY 693B - Project in School Counseling *Units: 4*
- • EPSY 693C - Project in School Psychology *Units: 4*
- • EPSY 695 - Practicum *Units: 1-4*
- • EPSY 696 - Advanced Practicum *Units: 3*
- • EPSY 697 - Issues in Educational Psychology *Units: 2*
- • EPSY 698 - Internship *Units: 1-3*
- • SPED 500 - Educating All Learners in Diverse Classrooms *Units: 4*
- • SPED 601 - Educational Practices: Mild/Moderate Disabilities *Units: 4*
- • SPED 602 - Evidence-based Practices: Moderate/Severe Disabilities *Units: 4*
- • SPED 603 - Teaming, Collaborative Educational Processes and Transition Services *Units: 4*
- • SPED 604 - Individual and School-Wide Behavioral Needs, Mental Health & Positive Supports

Units: 4

- • SPED 605 - Communication and Technology *Units: 4*
- • SPED 606 - Assessment: Students with Mild/Moderate Disabilities *Units: 4*
- • SPED 607 - Curriculum and Instruction: Students with Mild/Moderate Disabilities *Units: 4*
- • SPED 608 - Instruction and Behavioral Supports and Strategies: Moderate-Severe Disabilities

Units: 4

- • SPED 609 - Advanced Assessment and Curriculum: Moderate-Severe Disabilities *Units: 4*
- • SPED 610 - Research and Professional Practices *Units: 4*
- • SPED 611 - Fieldwork I: Mild/Moderate Disabilities *Units: 3*
- • SPED 612 - Fieldwork II: Mild/Moderate Disabilities *Units: 3*
- • SPED 613 - Final Student Teaching: Mild/Moderate Disabilities *Units: 6*
- • SPED 615 - Fieldwork I: Moderate-Severe Disabilities *Units: 3*
- • SPED 616 - Fieldwork II: Moderate-Severe Disabilities *Units: 3*
- • SPED 617 - Final Student Teaching: Moderate-Severe Disabilities *Units: 6*
- • SPED 693 - Capstone Research Project *Units: 4*

- • SPED 695 - Special Education Internship *Units: 2*
- • SPED 697 - Issues in Special Education *Units: 2*

Counseling, M.S.: School Counseling Concentration

Take the following 18 units to complete the M.S. in Counseling degree:

Counseling, M.S. Program

Program Description

The Master of Science in Counseling degree requires 60 units organized according to university and degree program requirements. Requirements are established to ensure that each degree candidate obtains adequate breadth in subject matter, field experiences, and research.

Students interested in the Pupil Personnel Service Credential in School Counseling or School Psychology, please refer to their individual program pages.

CSU East Bay offers three concentrations within the M.S. in Counseling. Individuals interested in a M.S. in Counseling degree must enroll in one of the following:

Marriage and Family Therapy Concentration

The primary focus of the concentration is to train psychotherapists who eventually plan to obtain a California Marriage and Family Therapy (MFT) and/or a Licensed Professional Clinical Counselor (LPCC) internship license. Additional units may be taken to meet the requirements for the LPCC and the MFT internship. (See BBS Sections 4980.37, 4980.41 (a)(4)&(5) for MFT and 4999.33 for LPCC.).

These additional LPCC courses lead to completion of the required hours of clinical experience for the license application.

The MFT course work is geared towards a relational approach to counseling that focuses on multicultural diversity, collaborative treatment, wellness, resiliency, and recovery. Faculty orient students to promote resilience and practice strength-based interventions. Course work combined with clinical practicum training in the field prepares graduates to work from a relational perspective.

School Counseling Concentration

The School Counseling concentration is a full-time, two-year course of study. Courses are offered during the day, in the evening, and on weekends.

School Counseling reflects an integration of local program needs, the campus mission, and the direction provided by the National Standards and National Model of the American School Counselor Association (ASCA) and the National Career Development Guidelines (NOICC).

Students acquire the skills to develop curriculum for small-group guidance, conduct individual and group therapy, and provide consultation and leadership in the creation and evaluation of integrated, comprehensive prevention and intervention programs.

School Psychology Concentration

The School Psychology concentration is nationally accredited by the National Association of School Psychologists (NASP).

The philosophy of the School Psychology concentration is to train graduate students in evidenced-based practice to promote social justice and equity to diverse school communities. Social justice is the call to provide all pupils with the support, skills, and services they need to reach their full potential in spite of poverty and other significant challenges. The School Psychology concentration is committed to the academic and social-emotional development of children, families and communities. Thus, we strive to promote a strong professional identity in School Psychology while providing a core of shared learning experiences.

The goals of the concentration are to provide clinical training, instruction, field-based placements, and cohort learning opportunities to promote four levels of trainee development; 1) Foundation for Clinical Practice, 2) Professional Skills and Knowledge, 3) Demonstration of Competency, and 4) Professional Identity. Although each area is introduced at different points of the program, levels of development and knowledge based content are continuously revisited and integrated into group and individual discussion and reflection. In addition, coursework continues to build as trainees demonstrate competence in service delivery.

Career Opportunities

Marriage and Family Therapy (MFT)

The MFT concentration prepares graduate students for clinical work in a wide variety of settings, such as community mental health based and county agencies, schools and universities, hospitals, business and industry, and private practice.

Graduates have been hired in a wide range of agencies and businesses. Some are counselors in junior colleges and college counseling settings, Others are drug and alcohol abuse counselors in hospitals, family therapists on-site in schools, advocates for the mentally ill, therapists working with chronically ill and they elderly, child therapists in therapeutic nursery schools, assessment counselors, information and referral clinicians in employment assistance programs, individual and family therapists for police departments, grief counselors, organizational development specialists, and human resource professionals in business and industry.

School Counseling

Graduates of the MS in Counseling with a concentration in School Counseling often work in community agencies. Other graduates have been hired in agencies and businesses and other diverse settings, such as counselors in junior colleges, colleges, drug and alcohol abuse counselors in hospitals, and as advocates for mentally ill persons. Additional courses taken for the Pupil Personnel Services (PPS) Credential required by the California Commission on Teacher Credentialing (CTC) and coursework required by the Board of Behavioral Sciences (BBS) may lead to positions providing mental health services and guidance support for students in K-12 schools, careers as child therapists in therapeutic nursery schools, assessment counselors, information and referral clinicians in employee assistance programs, individual and family therapists for police departments, organizational development specialists, and human resource professionals. Some graduates have pursued doctoral-level work in clinical and counseling psychology or education after completing their master's degree in this program.

School Psychology

The M.S. Counseling, School Psychology concentration prepares graduates for careers as educational interventionists and counselors in hospitals and mental health organizations. According to the US News and World Report's on-line career review, it is a top social service prospect for the future. Additional courses taken for the Pupil Personnel Services (PPS) Credential required by the California Commission on Teacher Credentialing (CTC and coursework required by the Board of Behavioral Sciences (BBS) may lead to leadership positions in culturally and linguistically diverse K-12 schools. The additional PPS specialization courses also prepare graduates to make a difference in their communities through providing mental health services and advocacy.

M.S. in Counseling Admission Requirements

- Bachelor's degree from an accredited university
- Cumulative undergraduate GPA of 3.0
- University application (submitted via CSU online application)
- Department application
- Personal Statement
- Writing sample
- Three letters of reference
- Graduate Record Examination (GRE)
- Prerequisites (see curriculum requirements below) are not required for admission, but must be completed prior to start of graduate coursework in the Fall term of admission to the program.

Student Standing and Progress

The MS in Counseling requires demonstration of the following:

- Completion of all coursework toward the degree with a grade of B or higher in each course.
- Completion of the University Writing Skills Test (WST) requirement.

Advancement to Candidacy

- Satisfactory evaluations from field and University supervisors/professors
- Demonstration of ethical and professional program expectations and dispositions program requirements
- Completion of required field-based practicum hours.
- A passing grade on the Praxis test for the School Counseling and School Psychology concentrations.

Program Learning Outcomes

Upon completion of the CSUEB Master of Counseling, graduates will be able to:

1. demonstrate a knowledge of systems theories and be able to successfully apply theories in clinical practice.
2. demonstrate an awareness of diversity and social justice issues, as well as demonstrate competence in working with diverse populations.
3. demonstrate ethical and legal professional practice by identifying and applying ethical and legal standards applied to counseling, assessment, intervention, and consultation.
4. effectively and clearly communicate with all stakeholders.

Counseling Degree Requirements (60-61 units)

Prerequisites or Foundation Requirements

The prerequisites or foundation coursework below (or their equivalents) are required for all students in the M.S. in Counseling program. Please check concentration requirements for additional prerequisites. Prerequisites must be completed before beginning graduate-level coursework. This area may require 0-11 units that are not included in the major units:

- PSYC 381 - Psychopathology *Units: 4*
- PSYC 340 - Developmental Psychology *Units: 4*
- STAT 100 - Elements of Statistics and Probability *Units: 3 ; G.E./G.R. Area: B4*

Required Core Courses

The following 38 units are required for all students:

- EPSY 630 - Law, Ethics and Professional Issues *Units: 3*
- EPSY 631 - Intimate Partner Violence *Units: 1*
- EPSY 632 - Child Abuse Assessment and Reporting *Units: 1*
- EPSY 633 - Substance Abuse *Units: 3*
- EPSY 635 - Pre-Practicum Microcounseling Skills in Relational Practice
Units: 2
- EPSY 636 - Counseling Theories *Units: 3*
- EPSY 637 - Multicultural Counseling *Units: 3*
- EPSY 638 - Psychopathology *Units: 3*
- EPSY 639 - Community Mental Health Counseling *Units: 3*
- EPSY 641 - Child and Youth Psychotherapy *Units: 3*
- EPSY 643 - Family Therapy *Units: 3*
- EPSY 647 - Psychopharmacology *Units: 3*
- EPSY 650 - Group Counseling Theory and Practice *Units: 3*
- EPSY 651 - Research Methods for Evidenced-Based Practice and
Advocacy *Units: 3*
- EPSY 652 - Human Sexuality and Gender *Units: 1*

Concentrations

Choose one (1) of the M.S. in Counseling concentrations for 18 units to complete the degree:

- Counseling, M.S.: Marriage and Family Therapy Concentration
- Counseling, M.S.: School Counseling Concentration
- Counseling, M.S.: School Psychology Concentration

Capstone Requirements

Choose one (1) of the capstone courses below for 4 units according to your concentration:

- EPSY 693A - Project in Marriage and Family Therapy *Units: 4*
- EPSY 693B - Project in School Counseling *Units: 4*
- EPSY 693C - Project in School Psychology *Units: 4*

School Counseling Concentration

Required Courses

The following 18 units are required for the School Counseling concentration:

- EPSY 654 - Career Counseling *Units: 3*
- EPSY 661 - Academic Counseling *Units: 3*
- EPSY 662 - Cognitive Behavior Therapy *Units: 3*
- EPSY 664 - Diverse Needs in School Counseling *Units: 2*
- EPSY 665 - Leadership, Advocacy, and Wellness *Units: 2*
- EPSY 682 - Mental Health Consultation in Schools *Units: 3*
- EPSY 683 - Crisis in Schools and Mental Health Settings *Units: 2*

Other Graduate & Post-Baccalaureate Degree Requirements

In addition to departmental requirements, every student must also satisfy the University requirements for graduation as described throughout this catalog. These include the 70% unit residence requirement; the five-year rule on currency of subject matter; the minimum number of units in 600-level courses; the "C" minimum grade for each graduate course; the 3.00 cumulative grade point average; and the University Writing Skills Requirement.

Note: For information on meeting the University Writing Skills Requirement, see the Testing Office website at www.csueastbay.edu/testing or call (510) 885-3661.

Department Courses Listed by Course Type

Educational Psychology Courses

Department of Educational Psychology

Go to information for this department.

Courses

Educational Psychology

- EPSY 101 - Career Planning For College Students *Units: 2 ; G.E./G.R. Area: E*
- EPSY 230 - Strategies for Lifespan Mental Health *Units: 3*
- EPSY 301 - Orientation to Careers in Counseling *Units: 3*
- EPSY 497 - Issues in Educational Psychology *Units: 3*

Educational Psychology: Graduate

- • EPSY 630 - Law, Ethics and Professional Issues *Units: 3*
- • EPSY 631 - Intimate Partner Violence *Units: 1*
- • EPSY 632 - Child Abuse Assessment and Reporting *Units: 1*
- • EPSY 633 - Substance Abuse *Units: 3*
- • EPSY 634 - Family and Life Cycle Development *Units: 3*
- • EPSY 635 - Pre-Practicum Microcounseling Skills in Relational Practice *Units: 2*
- • EPSY 636 - Counseling Theories *Units: 3*
- • EPSY 637 - Multicultural Counseling *Units: 3*
- • EPSY 638 - Psychopathology *Units: 3*
- • EPSY 639 - Community Mental Health Counseling *Units: 3*
- • EPSY 641 - Child and Youth Psychotherapy *Units: 3*
- • EPSY 642 - Grief, Trauma, and Crisis Counseling *Units: 2*
- • EPSY 643 - Family Therapy *Units: 3*
- • EPSY 644 - Pre-Practicum Microcounseling Skills in Relational Practice II *Units: 2*
- • EPSY 645 - Introduction to Systemic-Relational Practice *Units: 2*
- • EPSY 646 - Contemporary Issues: Aging & Long-Term Care *Units: 2*
- • EPSY 647 - Psychopharmacology *Units: 3*
- • EPSY 648 - Assessment and Testing *Units: 3*
- • EPSY 650 - Group Counseling Theory and Practice *Units: 3*
- • EPSY 651 - Research Methods for Evidenced-Based Practice and Advocacy *Units: 3*
- • EPSY 652 - Human Sexuality and Gender *Units: 1*
- • EPSY 653 - Couples Therapy *Units: 3*
- • EPSY 654 - Career Counseling *Units: 3*
- • EPSY 655 - Advanced Pupil Personnel Services *Units: 3*
- • EPSY 660 - Clinic Rounds *Units: 3*
- • EPSY 661 - Academic Counseling *Units: 3*
- • EPSY 662 - Cognitive Behavior Therapy *Units: 3*
- • EPSY 663 - Psychoeducational Report Writing *Units: 3*
- • EPSY 664 - Diverse Needs in School Counseling *Units: 2*
- • EPSY 665 - Leadership, Advocacy, and Wellness *Units: 2*
- • EPSY 666 - Psychological Services in School Psychology *Units: 1*
- • EPSY 668 - Social and Emotional Assessment *Units: 3*
- • EPSY 669 - Moderate/Severe Disability Identification and Intervention *Units: 3*
- • EPSY 671 - Academic/Behavioral Assessment and Interventions *Units: 3*
- • EPSY 672 - Cognitive and Developmental Assessment *Units: 5*
- • EPSY 673 - Assessment of English Language Learners *Units: 1*
- • EPSY 674 - Lab: Psychoeducational Report Writing *Units: 2*
- • EPSY 678 - School Psychology Practicum: First-Year Supervision *Units: 3*
- • EPSY 679 - School Psychology Advanced Practicum: Second-Year Supervision *Units: 3*
- • EPSY 680 - School Psychology Internship Supervision *Units: 6*
- • EPSY 681 - Foundations in School Counseling *Units: 3*
- • EPSY 682 - Mental Health Consultation in Schools *Units: 3*
- • EPSY 683 - Crisis in Schools and Mental Health Settings *Units: 2*
- • EPSY 684 - Neuropsychology of Learning Disorders *Units: 4*
- • EPSY 685 - Advanced Service Delivery in School Psychology *Units: 3*
- • EPSY 690 - Independent Study *Units: 1-4*
- • EPSY 692 - Action Research and Comprehensive Evaluation *Units: 3*
- • EPSY 693A - Project in Marriage and Family Therapy *Units: 4*
- • EPSY 693B - Project in School Counseling *Units: 4*
- • EPSY 693C - Project in School Psychology *Units: 4*
- • EPSY 695 - Practicum *Units: 1-4*

- • EPSY 696 - Advanced Practicum *Units: 3*
- • EPSY 697 - Issues in Educational Psychology *Units: 2*
- • EPSY 698 - Internship *Units: 1-3*
- • SPED 500 - Educating All Learners in Diverse Classrooms *Units: 4*
- • SPED 601 - Educational Practices: Mild/Moderate Disabilities *Units: 4*
- • SPED 602 - Evidence-based Practices: Moderate/Severe Disabilities *Units: 4*
- • SPED 603 - Teaming, Collaborative Educational Processes and Transition Services *Units: 4*
- • SPED 604 - Individual and School-Wide Behavioral Needs, Mental Health & Positive Supports
Units: 4
- • SPED 605 - Communication and Technology *Units: 4*
- • SPED 606 - Assessment: Students with Mild/Moderate Disabilities *Units: 4*
- • SPED 607 - Curriculum and Instruction: Students with Mild/Moderate Disabilities *Units: 4*
- • SPED 608 - Instruction and Behavioral Supports and Strategies: Moderate-Severe Disabilities
Units: 4
- • SPED 609 - Advanced Assessment and Curriculum: Moderate-Severe Disabilities *Units: 4*
- • SPED 610 - Research and Professional Practices *Units: 4*
- • SPED 611 - Fieldwork I: Mild/Moderate Disabilities *Units: 3*
- • SPED 612 - Fieldwork II: Mild/Moderate Disabilities *Units: 3*
- • SPED 613 - Final Student Teaching: Mild/Moderate Disabilities *Units: 6*
- • SPED 615 - Fieldwork I: Moderate-Severe Disabilities *Units: 3*
- • SPED 616 - Fieldwork II: Moderate-Severe Disabilities *Units: 3*
- • SPED 617 - Final Student Teaching: Moderate-Severe Disabilities *Units: 6*
- • SPED 693 - Capstone Research Project *Units: 4*
- • SPED 695 - Special Education Internship *Units: 2*
- • SPED 697 - Issues in Special Education *Units: 2*

Counseling, M.S.: School Psychology Concentration

Take the following 18 units to complete the M.S. in Counseling degree:

Counseling, M.S. Program

Program Description

The Master of Science in Counseling degree requires 60 units organized according to university and degree program requirements. Requirements are established to ensure that each degree candidate obtains adequate breadth in subject matter, field experiences, and research.

Students interested in the Pupil Personnel Service Credential in School Counseling or School Psychology, please refer to their individual program pages.

CSU East Bay offers three concentrations within the M.S. in Counseling. Individuals interested in a M.S. in Counseling degree must enroll in one of the following:

Marriage and Family Therapy Concentration

The primary focus of the concentration is to train psychotherapists who eventually plan to obtain a California Marriage and Family Therapy (MFT) and/or a Licensed Professional Clinical Counselor (LPCC) internship license. Additional units may be taken to meet the requirements for the LPCC and the MFT internship. (See BBS Sections 4980.37, 4980.41 (a)(4)&(5) for MFT and 4999.33 for LPCC.).

These additional LPCC courses lead to completion of the required hours of clinical experience for the license application.

The MFT course work is geared towards a relational approach to counseling that focuses on multicultural diversity, collaborative treatment, wellness, resiliency, and recovery. Faculty orient students to promote resilience and practice strength-based interventions. Course work combined with clinical practicum training in the field prepares graduates to work from a relational perspective.

School Counseling Concentration

The School Counseling concentration is a full-time, two-year course of study. Courses are offered during the day, in the evening, and on weekends.

School Counseling reflects an integration of local program needs, the campus mission, and the direction provided by the National Standards and National Model of the American School Counselor Association (ASCA) and the National Career Development Guidelines (NOICC).

Students acquire the skills to develop curriculum for small-group guidance, conduct individual and group therapy, and provide consultation and leadership in the creation and evaluation of integrated, comprehensive prevention and intervention programs.

School Psychology Concentration

The School Psychology concentration is nationally accredited by the National Association of School Psychologists (NASP).

The philosophy of the School Psychology concentration is to train graduate students in evidenced-based practice to promote social justice and equity to diverse school communities. Social justice is the call to provide all pupils with the support, skills, and services they need to reach their full potential in spite of poverty and other significant challenges. The School Psychology concentration is committed to the academic and social-emotional development of children, families and communities. Thus, we strive to promote a strong professional identity in School Psychology while providing a core of shared learning experiences.

The goals of the concentration are to provide clinical training, instruction, field-based placements, and cohort learning opportunities to promote four levels of trainee development; 1) Foundation for Clinical Practice, 2) Professional Skills and Knowledge, 3) Demonstration of Competency, and 4) Professional Identity. Although each area is introduced at different points of the program, levels of development and knowledge based content are continuously revisited and integrated into group and individual discussion and reflection. In addition, coursework continues to build as trainees demonstrate competence in service delivery.

Career Opportunities

Marriage and Family Therapy (MFT)

The MFT concentration prepares graduate students for clinical work in a wide variety of settings, such as community mental health based and county agencies, schools and universities, hospitals, business and industry, and private practice.

Graduates have been hired in a wide range of agencies and businesses. Some are counselors in junior colleges and college counseling settings, Others are drug and alcohol abuse counselors in hospitals,

family therapists on-site in schools, advocates for the mentally ill, therapists working with chronically ill and the elderly, child therapists in therapeutic nursery schools, assessment counselors, information and referral clinicians in employment assistance programs, individual and family therapists for police departments, grief counselors, organizational development specialists, and human resource professionals in business and industry.

School Counseling

Graduates of the MS in Counseling with a concentration in School Counseling often work in community agencies. Other graduates have been hired in agencies and businesses and other diverse settings, such as counselors in junior colleges, colleges, drug and alcohol abuse counselors in hospitals, and as advocates for mentally ill persons. Additional courses taken for the Pupil Personnel Services (PPS) Credential required by the California Commission on Teacher Credentialing (CTC) and coursework required by the Board of Behavioral Sciences (BBS) may lead to positions providing mental health services and guidance support for students in K-12 schools, careers as child therapists in therapeutic nursery schools, assessment counselors, information and referral clinicians in employee assistance programs, individual and family therapists for police departments, organizational development specialists, and human resource professionals. Some graduates have pursued doctoral-level work in clinical and counseling psychology or education after completing their master's degree in this program.

School Psychology

The M.S. Counseling, School Psychology concentration prepares graduates for careers as educational interventionists and counselors in hospitals and mental health organizations. According to the US News and World Report's on-line career review, it is a top social service prospect for the future. Additional courses taken for the Pupil Personnel Services (PPS) Credential required by the California Commission on Teacher Credentialing (CTC) and coursework required by the Board of Behavioral Sciences (BBS) may lead to leadership positions in culturally and linguistically diverse K-12 schools. The additional PPS specialization courses also prepare graduates to make a difference in their communities through providing mental health services and advocacy.

M.S. in Counseling Admission Requirements

- Bachelor's degree from an accredited university
- Cumulative undergraduate GPA of 3.0
- University application (submitted via CSU online application)
- Department application
- Personal Statement
- Writing sample
- Three letters of reference
- Graduate Record Examination (GRE)
- Prerequisites (see curriculum requirements below) are not required for admission, but must be completed prior to start of graduate coursework in the Fall term of admission to the program.

Student Standing and Progress

The MS in Counseling requires demonstration of the following:

- Completion of all coursework toward the degree with a grade of B or higher in each course.
- Completion of the University Writing Skills Test (WST) requirement.

Advancement to Candidacy

- Satisfactory evaluations from field and University supervisors/professors
- Demonstration of ethical and professional program expectations and dispositions program requirements
- Completion of required field-based practicum hours.
- A passing grade on the Praxis test for the School Counseling and School Psychology concentrations.

Program Learning Outcomes

Upon completion of the CSUEB Master of Counseling, graduates will be able to:

1. demonstrate a knowledge of systems theories and be able to successfully apply theories in clinical practice.
2. demonstrate an awareness of diversity and social justice issues, as well as demonstrate competence in working with diverse populations.
3. demonstrate ethical and legal professional practice by identifying and applying ethical and legal standards applied to counseling, assessment, intervention, and consultation.
4. effectively and clearly communicate with all stakeholders.

Counseling Degree Requirements (60-61 units)

Prerequisites or Foundation Requirements

The prerequisites or foundation coursework below (or their equivalents) are required for all students in the M.S. in Counseling program. Please check concentration requirements for additional prerequisites. Prerequisites must be completed before beginning graduate-level coursework. This area may require 0-11 units that are not included in the major units:

- PSYC 381 - Psychopathology *Units: 4*
- PSYC 340 - Developmental Psychology *Units: 4*
- STAT 100 - Elements of Statistics and Probability *Units: 3 ; G.E./G.R. Area: B4*

Required Core Courses

The following 38 units are required for all students:

- EPSY 630 - Law, Ethics and Professional Issues *Units: 3*
- EPSY 631 - Intimate Partner Violence *Units: 1*
- EPSY 632 - Child Abuse Assessment and Reporting *Units: 1*
- EPSY 633 - Substance Abuse *Units: 3*
- EPSY 635 - Pre-Practicum Microcounseling Skills in Relational Practice
Units: 2
- EPSY 636 - Counseling Theories *Units: 3*
- EPSY 637 - Multicultural Counseling *Units: 3*
- EPSY 638 - Psychopathology *Units: 3*

- EPSY 639 - Community Mental Health Counseling *Units: 3*
- EPSY 641 - Child and Youth Psychotherapy *Units: 3*
- EPSY 643 - Family Therapy *Units: 3*
- EPSY 647 - Psychopharmacology *Units: 3*
- EPSY 650 - Group Counseling Theory and Practice *Units: 3*
- EPSY 651 - Research Methods for Evidenced-Based Practice and Advocacy *Units: 3*
- EPSY 652 - Human Sexuality and Gender *Units: 1*

Concentrations

Choose one (1) of the M.S. in Counseling concentrations for 18 units to complete the degree:

- Counseling, M.S.: Marriage and Family Therapy Concentration
- Counseling, M.S.: School Counseling Concentration
- Counseling, M.S.: School Psychology Concentration

Capstone Requirements

Choose one (1) of the capstone courses below for 4 units according to your concentration:

- EPSY 693A - Project in Marriage and Family Therapy *Units: 4*
- EPSY 693B - Project in School Counseling *Units: 4*
- EPSY 693C - Project in School Psychology *Units: 4*

School Psychology Concentration

Prerequisites

The 0-8 prerequisite units are not included in the unit count for the concentration in School Psychology.

- PSYC 370 - Psychological Measurement *Units: 4*
- PSYC 412 - Learning Theory *Units: 4*

Required Courses

The following 18 units are required for the School Psychology concentration:

- EPSY 662 - Cognitive Behavior Therapy *Units: 3*
- EPSY 663 - Psychoeducational Report Writing *Units: 3*
- EPSY 666 - Psychological Services in School Psychology *Units: 1*
- EPSY 672 - Cognitive and Developmental Assessment *Units: 5*
- EPSY 673 - Assessment of English Language Learners *Units: 1*
- EPSY 682 - Mental Health Consultation in Schools *Units: 3*
- EPSY 683 - Crisis in Schools and Mental Health Settings *Units: 2*

Other Graduate & Post-Baccalaureate Degree Requirements

In addition to departmental requirements, every student must also satisfy the University requirements for graduation as described throughout this catalog. These include the 70% unit residence requirement; the five-year rule on currency of subject matter; the minimum number of units in 600-level courses; the "C" minimum grade for each graduate course; the 3.00 cumulative grade point average; and the University Writing Skills Requirement.

Note: For information on meeting the University Writing Skills Requirement, see the Testing Office website at www.csueastbay.edu/testing or call (510) 885-3661.

Department Courses Listed by Course Type

Educational Psychology Courses

Department of Educational Psychology

Go to information for this department.

Courses

Educational Psychology

- EPSY 101 - Career Planning For College Students *Units: 2 ; G.E./G.R. Area: E*
- EPSY 230 - Strategies for Lifespan Mental Health *Units: 3*
- EPSY 301 - Orientation to Careers in Counseling *Units: 3*
- EPSY 497 - Issues in Educational Psychology *Units: 3*

Educational Psychology: Graduate

- EPSY 630 - Law, Ethics and Professional Issues *Units: 3*
- EPSY 631 - Intimate Partner Violence *Units: 1*
- EPSY 632 - Child Abuse Assessment and Reporting *Units: 1*
- EPSY 633 - Substance Abuse *Units: 3*
- EPSY 634 - Family and Life Cycle Development *Units: 3*
- EPSY 635 - Pre-Practicum Microcounseling Skills in Relational Practice *Units: 2*
- EPSY 636 - Counseling Theories *Units: 3*
- EPSY 637 - Multicultural Counseling *Units: 3*
- EPSY 638 - Psychopathology *Units: 3*
- EPSY 639 - Community Mental Health Counseling *Units: 3*
- EPSY 641 - Child and Youth Psychotherapy *Units: 3*
- EPSY 642 - Grief, Trauma, and Crisis Counseling *Units: 2*
- EPSY 643 - Family Therapy *Units: 3*
- EPSY 644 - Pre-Practicum Microcounseling Skills in Relational Practice II *Units: 2*
- EPSY 645 - Introduction to Systemic-Relational Practice *Units: 2*
- EPSY 646 - Contemporary Issues: Aging & Long-Term Care *Units: 2*
- EPSY 647 - Psychopharmacology *Units: 3*
- EPSY 648 - Assessment and Testing *Units: 3*
- EPSY 650 - Group Counseling Theory and Practice *Units: 3*
- EPSY 651 - Research Methods for Evidenced-Based Practice and Advocacy *Units: 3*
- EPSY 652 - Human Sexuality and Gender *Units: 1*

- EPSY 653 - Couples Therapy *Units: 3*
- EPSY 654 - Career Counseling *Units: 3*
- EPSY 655 - Advanced Pupil Personnel Services *Units: 3*
- EPSY 660 - Clinic Rounds *Units: 3*
- EPSY 661 - Academic Counseling *Units: 3*
- EPSY 662 - Cognitive Behavior Therapy *Units: 3*
- EPSY 663 - Psychoeducational Report Writing *Units: 3*
- EPSY 664 - Diverse Needs in School Counseling *Units: 2*
- EPSY 665 - Leadership, Advocacy, and Wellness *Units: 2*
- EPSY 666 - Psychological Services in School Psychology *Units: 1*
- EPSY 668 - Social and Emotional Assessment *Units: 3*
- EPSY 669 - Moderate/Severe Disability Identification and Intervention *Units: 3*
- EPSY 671 - Academic/Behavioral Assessment and Interventions *Units: 3*
- EPSY 672 - Cognitive and Developmental Assessment *Units: 5*
- EPSY 673 - Assessment of English Language Learners *Units: 1*
- EPSY 674 - Lab: Psychoeducational Report Writing *Units: 2*
- EPSY 678 - School Psychology Practicum: First-Year Supervision *Units: 3*
- EPSY 679 - School Psychology Advanced Practicum: Second-Year Supervision *Units: 3*
- EPSY 680 - School Psychology Internship Supervision *Units: 6*
- EPSY 681 - Foundations in School Counseling *Units: 3*
- EPSY 682 - Mental Health Consultation in Schools *Units: 3*
- EPSY 683 - Crisis in Schools and Mental Health Settings *Units: 2*
- EPSY 684 - Neuropsychology of Learning Disorders *Units: 4*
- EPSY 685 - Advanced Service Delivery in School Psychology *Units: 3*
- EPSY 690 - Independent Study *Units: 1-4*
- EPSY 692 - Action Research and Comprehensive Evaluation *Units: 3*
- EPSY 693A - Project in Marriage and Family Therapy *Units: 4*
- EPSY 693B - Project in School Counseling *Units: 4*
- EPSY 693C - Project in School Psychology *Units: 4*
- EPSY 695 - Practicum *Units: 1-4*
- EPSY 696 - Advanced Practicum *Units: 3*
- EPSY 697 - Issues in Educational Psychology *Units: 2*
- EPSY 698 - Internship *Units: 1-3*
- SPED 500 - Educating All Learners in Diverse Classrooms *Units: 4*
- SPED 601 - Educational Practices: Mild/Moderate Disabilities *Units: 4*
- SPED 602 - Evidence-based Practices: Moderate/Severe Disabilities *Units: 4*
- SPED 603 - Teaming, Collaborative Educational Processes and Transition Services *Units: 4*
- SPED 604 - Individual and School-Wide Behavioral Needs, Mental Health & Positive Supports

Units: 4

- SPED 605 - Communication and Technology *Units: 4*
- SPED 606 - Assessment: Students with Mild/Moderate Disabilities *Units: 4*
- SPED 607 - Curriculum and Instruction: Students with Mild/Moderate Disabilities *Units: 4*
- SPED 608 - Instruction and Behavioral Supports and Strategies: Moderate-Severe Disabilities

Units: 4

- SPED 609 - Advanced Assessment and Curriculum: Moderate-Severe Disabilities *Units: 4*
- SPED 610 - Research and Professional Practices *Units: 4*
- SPED 611 - Fieldwork I: Mild/Moderate Disabilities *Units: 3*
- SPED 612 - Fieldwork II: Mild/Moderate Disabilities *Units: 3*
- SPED 613 - Final Student Teaching: Mild/Moderate Disabilities *Units: 6*
- SPED 615 - Fieldwork I: Moderate-Severe Disabilities *Units: 3*
- SPED 616 - Fieldwork II: Moderate-Severe Disabilities *Units: 3*

- • SPED 617 - Final Student Teaching: Moderate-Severe Disabilities *Units: 6*
- • SPED 693 - Capstone Research Project *Units: 4*
- • SPED 695 - Special Education Internship *Units: 2*
- • SPED 697 - Issues in Special Education *Units: 2*

Special Education, M.S.: Mild/Moderate Disabilities Concentration

Special Education M.S. Program

Program Description

The Master of Science in Special Education, with either a Concentration in Mild/Moderate Disabilities or Moderate/Severe Disabilities, is offered as a stand-alone degree program or completed with the Education Specialist teaching credential in Mild/Moderate Disabilities or Moderate/Severe Disabilities. The two-year, 4-semester master's degree program overlaps significantly with the Education Specialist credentials. The Master of Science in Special Education recognizes that all candidates should be grounded in research and to know its direct applicability to the populations of individuals with disabilities. Evidence-based practices for diverse learners in inclusive school and community settings are the backbone of the program to ensure that all individuals may have access to, participate within, and learn across all environments. The master's degree develops and facilitates both teacher leadership among its graduates and related leadership roles in the field.

Education Specialist Credential in Moderate/Severe Disabilities

Education Specialist Credential in Mild/Moderate Disabilities

Career Opportunities

The Master of Science in Special Education prepares graduates for careers in teaching and leadership roles in the field of Special Education at local and state levels and within professional organizations and communities. Careers may include teachers and specialists, program supervisors, administrators, advocates and leadership faculty in special, inclusive and general education, and student support and advocacy.

Admission Requirements

Admission requirements for Master's Degree without earning an Education Specialist Credential:

- Bachelor's degree from accredited university
- Statement of Purpose
- Department Application
- University Application^[SEP]
- Cumulative undergraduate GPA of 3.0
- GRE or ACT if no teaching credential entry assessment data (i.e., the California Subject Examination for Teachers, or CSET)

Student Standing and Progress

1. Completion of courses with a grade of B or higher

2. Completion of the Writing Skills Test (WST)

Program Learning Outcomes

- Think critically and creatively and apply analytical and quantitative reasoning to address complex challenges and everyday problems regarding strategies to achieve equitable social emotional, learning, social emotional outcomes for students and the support for their families, care givers develop systems for success.
- Communicate ideas, perspectives, and values clearly and persuasively while listening openly to others within school, community, university and professional areas.
- Apply knowledge of diversity and multicultural competencies to promote equity and social justice in our communities in which individuals are treated with respect, dignity, trust and fairness.
- Work collaboratively and respectfully as members and leaders of diverse teams and communities to achieve equitable environments and learning outcomes
- Act responsibly and sustainably at local, national, and global levels through the demonstration of pedagogical content knowledge and skills as defined by professional organizations and government agencies.
- Demonstrate expertise and integration of ideas, methods, theory and practice in Education with an emphasis in Special Education aligned with professional standards, research based designs and best practices

Special Education M.S. Requirements (35 units)

Prerequisites

The 4-unit prerequisite is not included in the Master's total.

- **SPED 500 - Educating All Learners in Diverse Classrooms** *Units: 4*

Core Courses

The following 16 units of core coursework is required:

- **SPED 603 - Teaming, Collaborative Educational Processes and Transition Services** *Units: 4*
- **SPED 604 - Individual and School-Wide Behavioral Needs, Mental Health & Positive Supports** *Units: 4*
- **SPED 605 - Communication and Technology** *Units: 4*
- **SPED 610 - Research and Professional Practices** *Units: 4*

Concentrations

SPED M.S. students are required to fulfill a concentration for 15 units to earn the degree:

- Special Education, M.S.: Mild/Moderate Disabilities Concentration
- Special Education, M.S.: Moderate/Severe Disabilities Concentration

Capstone Requirement

The following capstone course is required to complete the degree:

- **SPED 693 - Capstone Research Project** *Units: 4*

Mild-Moderate Disabilities Concentration

The following 15 units are required for the concentration:

- **SPED 601 - Educational Practices: Mild/Moderate Disabilities** *Units: 4*
- **SPED 606 - Assessment: Students with Mild/Moderate Disabilities** *Units: 4*
- **SPED 607 - Curriculum and Instruction: Students with Mild/Moderate Disabilities** *Units: 4*
- **SPED 611 - Fieldwork I: Mild/Moderate Disabilities** *Units: 3*

Other Graduate & Post-Baccalaureate Degree Requirements

In addition to departmental requirements, every student must also satisfy the University requirements for graduation as described throughout this catalog. These include the 70% unit residence requirement; the five-year rule on currency of subject matter; the minimum number of units in 600-level courses; the "C" minimum grade for each graduate course; the 3.00 cumulative grade point average; and the University Writing Skills Requirement.

Note: For information on meeting the University Writing Skills Requirement, see the Testing Office website at www.csueastbay.edu/testing or call (510) 885-3661.

Department Courses Listed by Course Type

Educational Psychology Courses

Department of Educational Psychology

Go to information for this department.

Courses

Educational Psychology

- **EPSY 101 - Career Planning For College Students** *Units: 2 ; G.E./G.R. Area: E*
- **EPSY 230 - Strategies for Lifespan Mental Health** *Units: 3*
- **EPSY 301 - Orientation to Careers in Counseling** *Units: 3*
- **EPSY 497 - Issues in Educational Psychology** *Units: 3*

Educational Psychology: Graduate

- **EPSY 630 - Law, Ethics and Professional Issues** *Units: 3*
- **EPSY 631 - Intimate Partner Violence** *Units: 1*
- **EPSY 632 - Child Abuse Assessment and Reporting** *Units: 1*
- **EPSY 633 - Substance Abuse** *Units: 3*
- **EPSY 634 - Family and Life Cycle Development** *Units: 3*

- • EPSY 635 - Pre-Practicum Microcounseling Skills in Relational Practice *Units: 2*
- • EPSY 636 - Counseling Theories *Units: 3*
- • EPSY 637 - Multicultural Counseling *Units: 3*
- • EPSY 638 - Psychopathology *Units: 3*
- • EPSY 639 - Community Mental Health Counseling *Units: 3*
- • EPSY 641 - Child and Youth Psychotherapy *Units: 3*
- • EPSY 642 - Grief, Trauma, and Crisis Counseling *Units: 2*
- • EPSY 643 - Family Therapy *Units: 3*
- • EPSY 644 - Pre-Practicum Microcounseling Skills in Relational Practice II *Units: 2*
- • EPSY 645 - Introduction to Systemic-Relational Practice *Units: 2*
- • EPSY 646 - Contemporary Issues: Aging & Long-Term Care *Units: 2*
- • EPSY 647 - Psychopharmacology *Units: 3*
- • EPSY 648 - Assessment and Testing *Units: 3*
- • EPSY 650 - Group Counseling Theory and Practice *Units: 3*
- • EPSY 651 - Research Methods for Evidenced-Based Practice and Advocacy *Units: 3*
- • EPSY 652 - Human Sexuality and Gender *Units: 1*
- • EPSY 653 - Couples Therapy *Units: 3*
- • EPSY 654 - Career Counseling *Units: 3*
- • EPSY 655 - Advanced Pupil Personnel Services *Units: 3*
- • EPSY 660 - Clinic Rounds *Units: 3*
- • EPSY 661 - Academic Counseling *Units: 3*
- • EPSY 662 - Cognitive Behavior Therapy *Units: 3*
- • EPSY 663 - Psychoeducational Report Writing *Units: 3*
- • EPSY 664 - Diverse Needs in School Counseling *Units: 2*
- • EPSY 665 - Leadership, Advocacy, and Wellness *Units: 2*
- • EPSY 666 - Psychological Services in School Psychology *Units: 1*
- • EPSY 668 - Social and Emotional Assessment *Units: 3*
- • EPSY 669 - Moderate/Severe Disability Identification and Intervention *Units: 3*
- • EPSY 671 - Academic/Behavioral Assessment and Interventions *Units: 3*
- • EPSY 672 - Cognitive and Developmental Assessment *Units: 5*
- • EPSY 673 - Assessment of English Language Learners *Units: 1*
- • EPSY 674 - Lab: Psychoeducational Report Writing *Units: 2*
- • EPSY 678 - School Psychology Practicum: First-Year Supervision *Units: 3*
- • EPSY 679 - School Psychology Advanced Practicum: Second-Year Supervision *Units: 3*
- • EPSY 680 - School Psychology Internship Supervision *Units: 6*
- • EPSY 681 - Foundations in School Counseling *Units: 3*
- • EPSY 682 - Mental Health Consultation in Schools *Units: 3*
- • EPSY 683 - Crisis in Schools and Mental Health Settings *Units: 2*
- • EPSY 684 - Neuropsychology of Learning Disorders *Units: 4*
- • EPSY 685 - Advanced Service Delivery in School Psychology *Units: 3*
- • EPSY 690 - Independent Study *Units: 1-4*
- • EPSY 692 - Action Research and Comprehensive Evaluation *Units: 3*
- • EPSY 693A - Project in Marriage and Family Therapy *Units: 4*
- • EPSY 693B - Project in School Counseling *Units: 4*
- • EPSY 693C - Project in School Psychology *Units: 4*
- • EPSY 695 - Practicum *Units: 1-4*
- • EPSY 696 - Advanced Practicum *Units: 3*
- • EPSY 697 - Issues in Educational Psychology *Units: 2*
- • EPSY 698 - Internship *Units: 1-3*
- • SPED 500 - Educating All Learners in Diverse Classrooms *Units: 4*
- • SPED 601 - Educational Practices: Mild/Moderate Disabilities *Units: 4*

- • SPED 602 - Evidence-based Practices: Moderate/Severe Disabilities *Units: 4*
- • SPED 603 - Teaming, Collaborative Educational Processes and Transition Services *Units: 4*
- • SPED 604 - Individual and School-Wide Behavioral Needs, Mental Health & Positive Supports
Units: 4
- • SPED 605 - Communication and Technology *Units: 4*
- • SPED 606 - Assessment: Students with Mild/Moderate Disabilities *Units: 4*
- • SPED 607 - Curriculum and Instruction: Students with Mild/Moderate Disabilities *Units: 4*
- • SPED 608 - Instruction and Behavioral Supports and Strategies: Moderate-Severe Disabilities
Units: 4
- • SPED 609 - Advanced Assessment and Curriculum: Moderate-Severe Disabilities *Units: 4*
- • SPED 610 - Research and Professional Practices *Units: 4*
- • SPED 611 - Fieldwork I: Mild/Moderate Disabilities *Units: 3*
- • SPED 612 - Fieldwork II: Mild/Moderate Disabilities *Units: 3*
- • SPED 613 - Final Student Teaching: Mild/Moderate Disabilities *Units: 6*
- • SPED 615 - Fieldwork I: Moderate-Severe Disabilities *Units: 3*
- • SPED 616 - Fieldwork II: Moderate-Severe Disabilities *Units: 3*
- • SPED 617 - Final Student Teaching: Moderate-Severe Disabilities *Units: 6*
- • SPED 693 - Capstone Research Project *Units: 4*
- • SPED 695 - Special Education Internship *Units: 2*
- • SPED 697 - Issues in Special Education *Units: 2*

Special Education, M.S.: Moderate/Severe Disabilities Concentration

Special Education M.S. Program

Program Description

The Master of Science in Special Education, with either a Concentration in Mild/Moderate Disabilities or Moderate/Severe Disabilities, is offered as a stand-alone degree program or completed with the Education Specialist teaching credential in Mild/Moderate Disabilities or Moderate/Severe Disabilities. The two-year, 4-semester master's degree program overlaps significantly with the Education Specialist credentials. The Master of Science in Special Education recognizes that all candidates should be grounded in research and to know its direct applicability to the populations of individuals with disabilities. Evidence-based practices for diverse learners in inclusive school and community settings are the backbone of the program to ensure that all individuals may have access to, participate within, and learn across all environments. The master's degree develops and facilitates both teacher leadership among its graduates and related leadership roles in the field.

Education Specialist Credential in Moderate/Severe Disabilities

Education Specialist Credential in Mild/Moderate Disabilities

Career Opportunities

The Master of Science in Special Education prepares graduates for careers in teaching and leadership roles in the field of Special Education at local and state levels and within professional organizations and communities. Careers may include teachers and specialists, program supervisors, administrators, advocates and leadership faculty in special, inclusive and general education, and student support and advocacy.

Admission Requirements

Admission requirements for Master's Degree without earning an Education Specialist Credential:

- Bachelor's degree from accredited university
- Statement of Purpose
- Department Application
- University Application^[1]_{SEP}
- Cumulative undergraduate GPA of 3.0
- GRE or ACT if no teaching credential entry assessment data (i.e., the California Subject Examination for Teachers, or CSET)

Student Standing and Progress

1. Completion of courses with a grade of B or higher
2. Completion of the Writing Skills Test (WST)

Program Learning Outcomes

- Think critically and creatively and apply analytical and quantitative reasoning to address complex challenges and everyday problems regarding strategies to achieve equitable social emotional, learning, social emotional outcomes for students and the support for their families, care givers develop systems for success.
- Communicate ideas, perspectives, and values clearly and persuasively while listening openly to others within school, community, university and professional areas.
- Apply knowledge of diversity and multicultural competencies to promote equity and social justice in our communities in which individuals are treated with respect, dignity, trust and fairness.
- Work collaboratively and respectfully as members and leaders of diverse teams and communities to achieve equitable environments and learning outcomes
- Act responsibly and sustainably at local, national, and global levels through the demonstration of pedagogical content knowledge and skills as defined by professional organizations and government agencies.
- Demonstrate expertise and integration of ideas, methods, theory and practice in Education with an emphasis in Special Education aligned with professional standards, research based designs and best practices

Special Education M.S. Requirements (35 units)

Prerequisites

The 4-unit prerequisite is not included in the Master's total.

- SPED 500 - Educating All Learners in Diverse Classrooms *Units: 4*

Core Courses

The following 16 units of core coursework is required:

- SPED 603 - Teaming, Collaborative Educational Processes and Transition Services *Units: 4*
- SPED 604 - Individual and School-Wide Behavioral Needs, Mental Health & Positive Supports *Units: 4*
- SPED 605 - Communication and Technology *Units: 4*
- SPED 610 - Research and Professional Practices *Units: 4*

Concentrations

SPED M.S. students are required to fulfill a concentration for 15 units to earn the degree:

- Special Education, M.S.: Mild/Moderate Disabilities Concentration
- Special Education, M.S.: Moderate/Severe Disabilities Concentration

Capstone Requirement

The following capstone course is required to complete the degree:

- SPED 693 - Capstone Research Project *Units: 4*

Moderate/Severe Disabilities Concentration

The following 15 units are required for the concentration:

- SPED 602 - Evidence-based Practices: Moderate/Severe Disabilities *Units: 4*
- SPED 608 - Instruction and Behavioral Supports and Strategies: Moderate-Severe Disabilities *Units: 4*
- SPED 609 - Advanced Assessment and Curriculum: Moderate-Severe Disabilities *Units: 4*
- SPED 615 - Fieldwork I: Moderate-Severe Disabilities *Units: 3*

Other Graduate & Post-Baccalaureate Degree Requirements

In addition to departmental requirements, every student must also satisfy the University requirements for graduation as described throughout this catalog. These include the 70% unit residence requirement; the five-year rule on currency of subject matter; the minimum number of units in 600-level courses; the "C" minimum grade for each graduate course; the 3.00 cumulative grade point average; and the University Writing Skills Requirement.

Note: For information on meeting the University Writing Skills Requirement, see the Testing Office website at www.csueastbay.edu/testing or call (510) 885-3661.

Department Courses Listed by Course Type

Educational Psychology Courses

Department of Educational Psychology

Go to information for this department.

Courses

Educational Psychology

- EPSY 101 - Career Planning For College Students *Units: 2 ; G.E./G.R. Area: E*
- EPSY 230 - Strategies for Lifespan Mental Health *Units: 3*
- EPSY 301 - Orientation to Careers in Counseling *Units: 3*
- EPSY 497 - Issues in Educational Psychology *Units: 3*

Educational Psychology: Graduate

- EPSY 630 - Law, Ethics and Professional Issues *Units: 3*
- EPSY 631 - Intimate Partner Violence *Units: 1*
- EPSY 632 - Child Abuse Assessment and Reporting *Units: 1*
- EPSY 633 - Substance Abuse *Units: 3*
- EPSY 634 - Family and Life Cycle Development *Units: 3*
- EPSY 635 - Pre-Practicum Microcounseling Skills in Relational Practice *Units: 2*
- EPSY 636 - Counseling Theories *Units: 3*
- EPSY 637 - Multicultural Counseling *Units: 3*
- EPSY 638 - Psychopathology *Units: 3*
- EPSY 639 - Community Mental Health Counseling *Units: 3*
- EPSY 641 - Child and Youth Psychotherapy *Units: 3*
- EPSY 642 - Grief, Trauma, and Crisis Counseling *Units: 2*
- EPSY 643 - Family Therapy *Units: 3*
- EPSY 644 - Pre-Practicum Microcounseling Skills in Relational Practice II *Units: 2*
- EPSY 645 - Introduction to Systemic-Relational Practice *Units: 2*
- EPSY 646 - Contemporary Issues: Aging & Long-Term Care *Units: 2*
- EPSY 647 - Psychopharmacology *Units: 3*
- EPSY 648 - Assessment and Testing *Units: 3*
- EPSY 650 - Group Counseling Theory and Practice *Units: 3*
- EPSY 651 - Research Methods for Evidenced-Based Practice and Advocacy *Units: 3*
- EPSY 652 - Human Sexuality and Gender *Units: 1*
- EPSY 653 - Couples Therapy *Units: 3*
- EPSY 654 - Career Counseling *Units: 3*
- EPSY 655 - Advanced Pupil Personnel Services *Units: 3*
- EPSY 660 - Clinic Rounds *Units: 3*
- EPSY 661 - Academic Counseling *Units: 3*
- EPSY 662 - Cognitive Behavior Therapy *Units: 3*
- EPSY 663 - Psychoeducational Report Writing *Units: 3*
- EPSY 664 - Diverse Needs in School Counseling *Units: 2*
- EPSY 665 - Leadership, Advocacy, and Wellness *Units: 2*
- EPSY 666 - Psychological Services in School Psychology *Units: 1*
- EPSY 668 - Social and Emotional Assessment *Units: 3*
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- • EPSY 678 - School Psychology Practicum: First-Year Supervision *Units: 3*
- • EPSY 679 - School Psychology Advanced Practicum: Second-Year Supervision *Units: 3*
- • EPSY 680 - School Psychology Internship Supervision *Units: 6*
- • EPSY 681 - Foundations in School Counseling *Units: 3*
- • EPSY 682 - Mental Health Consultation in Schools *Units: 3*
- • EPSY 683 - Crisis in Schools and Mental Health Settings *Units: 2*
- • EPSY 684 - Neuropsychology of Learning Disorders *Units: 4*
- • EPSY 685 - Advanced Service Delivery in School Psychology *Units: 3*
- • EPSY 690 - Independent Study *Units: 1-4*
- • EPSY 692 - Action Research and Comprehensive Evaluation *Units: 3*
- • EPSY 693A - Project in Marriage and Family Therapy *Units: 4*
- • EPSY 693B - Project in School Counseling *Units: 4*
- • EPSY 693C - Project in School Psychology *Units: 4*
- • EPSY 695 - Practicum *Units: 1-4*
- • EPSY 696 - Advanced Practicum *Units: 3*
- • EPSY 697 - Issues in Educational Psychology *Units: 2*
- • EPSY 698 - Internship *Units: 1-3*
- • SPED 500 - Educating All Learners in Diverse Classrooms *Units: 4*
- • SPED 601 - Educational Practices: Mild/Moderate Disabilities *Units: 4*
- • SPED 602 - Evidence-based Practices: Moderate/Severe Disabilities *Units: 4*
- • SPED 603 - Teaming, Collaborative Educational Processes and Transition Services *Units: 4*
- • SPED 604 - Individual and School-Wide Behavioral Needs, Mental Health & Positive Supports
Units: 4
- • SPED 605 - Communication and Technology *Units: 4*
- • SPED 606 - Assessment: Students with Mild/Moderate Disabilities *Units: 4*
- • SPED 607 - Curriculum and Instruction: Students with Mild/Moderate Disabilities *Units: 4*
- • SPED 608 - Instruction and Behavioral Supports and Strategies: Moderate-Severe Disabilities
Units: 4
- • SPED 609 - Advanced Assessment and Curriculum: Moderate-Severe Disabilities *Units: 4*
- • SPED 610 - Research and Professional Practices *Units: 4*
- • SPED 611 - Fieldwork I: Mild/Moderate Disabilities *Units: 3*
- • SPED 612 - Fieldwork II: Mild/Moderate Disabilities *Units: 3*
- • SPED 613 - Final Student Teaching: Mild/Moderate Disabilities *Units: 6*
- • SPED 615 - Fieldwork I: Moderate-Severe Disabilities *Units: 3*
- • SPED 616 - Fieldwork II: Moderate-Severe Disabilities *Units: 3*
- • SPED 617 - Final Student Teaching: Moderate-Severe Disabilities *Units: 6*
- • SPED 693 - Capstone Research Project *Units: 4*
- • SPED 695 - Special Education Internship *Units: 2*
- • SPED 697 - Issues in Special Education *Units: 2*

Department of English

The Department office is located in the Music and Business building, Room 2579

Office Hours: 8:00 a.m. - 5:00 p.m., Monday through Friday

Dept Phone: (510) 885-3282

Faculty

Professors Emeriti

Eileen A. Barrett, Ph.D. Boston College

Jacqueline Doyle, Ph.D. Cornell University

Susan A. Gubernat, M.F.A. University of Iowa

E.J. Murphy, Ph.D. University of Illinois

Associate Professor Emerita

Eve M. Lynch, Ph.D. University of California, Davis

Professors

Dennis M. Chester, Ph.D. University of Washington

Stephen D. Gutierrez, M.F.A. Cornell University

Sarah E. Nielsen (Chair), Ph.D. University of California, Davis

Ke Zou, Ph.D. University of Southern California

Associate Professor

Margaret Tomlinson-Rustick, Ph.D. Washington State University

Assistant Professors

Christine Gottlieb, Ph.D. University of California, Los Angeles

Ryan Heryford, Ph.D. University of California, San Diego

Douglas Taylor, Ph.D. University of North Carolina, Chapel Hill

Lecturers

Cynthia Andrzejczyk

Sartaz Aziz

Scott Bentley

Sally Baxter

Mary D'Alleva

Ingrid Hufgard

Dale Ireland

Aaron Jason

Rochelle Nameroff

Michael Rovasio

Marina Sapozhnikov

Jeff Scott

Paul White

Graduate Coordinator: Eve Lynch

Graduate TESOL Coordinator: Ke Zou

Director of Creative Writing: Stephen D. Gutierrez

Composition Coordinator: Margaret Tomlinson-Rustick

Department Statement

The Department of English offers its diverse student population a rich array of courses in literature, language, creative writing, and composition. The department attempts to foster in its students an understanding and appreciation of 1) the major works of British and American literature, including works by and about ethnic and cultural minorities and women, 2) the history and structure of the English language in all its variety, and 3) the aims and processes of writing, both creative and critical. In all its courses, the department attempts to help its students develop the advanced skills in reading, writing, and critical thinking necessary for successful careers in teaching, publishing, law, administration, and business.

About the Department

Use our university website link to learn more about what the English Department has to offer.

- Writing Programs
- Arroyo Literary Review
- Occam's Razor
- Distinguished Writers Program
- Awards and Prizes
- And more...

Bachelor

English, B.A.: British and American Literature Concentration

English, B.A. Program (120 units)

Program Description

The university offers the B.A. degree in English with three distinct concentrations: literature, creative writing, and English language and literacies. The student seeking a degree must observe the general university requirements stated elsewhere in this catalog as well as the specific departmental requirements stated here.

Program Learning Outcomes

Students graduating with a B.A. in English from Cal State East Bay will be able to:

- analyze and interpret literary genres represented by a range of texts;
- write in clear and cogent prose;
- demonstrate knowledge of key English language texts, including multicultural works;
- use critical theory to examine literary texts;
- conduct research relevant to the discipline of English studies and analyze connections among literary works and social issues.

Career Opportunities

Advertising Copy Writer • Author/Critic • Bookstore Manager • Continuity Writer • Corporate Communications Director • Foreign Service Office • Freelance Journalist/Writer • Greeting Card Editor/Writer • Lawyer • Librarian • Media Specialist • Newspaper Reporter • Public Information Officer • Publication Editor • Publicity Director • Publishing Agent • Radio/TV Agent • Script Writer • Teacher/Professor • Writer

Degree Requirements

- The B.A. degree requires a total of 120 units.
 - The major consists of 52 units (students must complete with a grade point average of 3.0 or better);
 - General Education (GE) & Graduation Requirements (GR) consists of 57 units;
 - Free electives may consist of 11 units (actual number of free elective units may depend on GE/GR units).

Note: It may be possible to double count units within the graduation requirement. It may also be possible that a course satisfies both a graduation requirement and a major requirement. Students should contact their program and AACE advisors for information.

English Major Requirements (52 units)

Lower Division Core

The following 12 units are required:

- ENGL 204 - Writing About Literature Units: 4 ; G.E./G.R. Area: C2
- Take one (1) additional lower- or upper-division English major elective course for 4 units.

Choose one (1) course in creative writing for 4 units:

- ENGL 205 - Beginning Workshop in Fiction *Units: 4 ; G.E./G.R. Area: C1*
- ENGL 206 - Beginning Workshop in Poetry *Units: 4 ; G.E./G.R. Area: C1*

Upper-Division Core

The following 12 units are required:

Choose one (1) course in writing or theory for 4 units:

- ENGL 303 - Advanced Expository Writing *Units: 4*
- ENGL 304 - Introduction to Technical and Professional Writing *Units: 4*
- ENGL 307 - Intermediate Workshop in Creative Nonfiction *Units: 4*
- ENGL 340 - Critical Theory of Literature *Units: 4*

Choose one (1) course in linguistics for 4 units:

- ENGL 350 - Study of Language *Units: 4*
- ENGL 351 - Modern English Grammar *Units: 4*

Choose one (1) course in Shakespeare for 4 units:

- ENGL 411 - Shakespeare I *Units: 4 ; G.E./G.R. Area: C4*
- ENGL 412 - Shakespeare II *Units: 4 ; G.E./G.R. Area: C4*

Concentrations

The Department of English offers three concentrations for degree candidates. Students must choose one (1) of the following concentrations for 24 units as a major requirement:

- English, B.A.: British and American Literature Concentration
- English, B.A.: Creative Writing Concentration
- English, B.A.: English Language and Literacies Concentration

Senior Capstone Requirement

The following senior capstone for 4 units is required to complete the major:

- ENGL 499 - Senior Seminar *Units: 4*

British and American Literature Concentration

English majors with a concentration in British and American literature must complete six (6) additional courses for 24 units as described below:

- ENGL 340 - Critical Theory of Literature *Units: 4*
- One course in American literature before 1900 (4 units)
- One course in British literature before 1900 (4 units)
- One course in British or American literature after 1900 (4 units)
- One course in ethnic or global literature (4 units)
- One upper-division elective in English (4 units)

Other Undergraduate Degree Requirements

In addition to major requirements, every student must also complete the University's baccalaureate requirements for graduation, which are described in the Requirements, Exams & Testing chapter of this catalog.

Department Courses Listed by Course Type

English Courses

Department of English

Go to information for this department.

Courses

English: American/Global Literature

- ENGL 328 - Latina/o Literature *Units: 4 ; G.E./G.R. Area: C4*
- English: American Literature**
- ENGL 220 - Immigration and Migration in American Literature *Units: 4 ; G.E./G.R. Area: C2*
- ENGL 320 - Major Works of American Literature *Units: 4*
- ENGL 321 - American Indian Literature *Units: 4 ; G.E./G.R. Area: C4*
- ENGL 322 - African-American Literature Before 1945 *Units: 4 ; G.E./G.R. Area: C4; Social Justice*
- ENGL 323 - African-American Literature After 1945 *Units: 4 ; G.E./G.R. Area: C4; Diversity*
- ENGL 324 - American Women's Literature *Units: 4 ; G.E./G.R. Area: C4; Social Justice*
- ENGL 325 - Asian-American Literature *Units: 4 ; G.E./G.R. Area: C4; Diversity*
- ENGL 421 - 19th-Century American Literature *Units: 4*
- ENGL 422 - 20th- and 21st-Century American Literature *Units: 4*
- ENGL 423 - Ethnic American Women's Literature After 1900 *Units: 4*
- ENGL 424 - American Fiction Before 1900 *Units: 4*
- ENGL 425 - American Novel After 1900 *Units: 4*
- ENGL 444 - Short Story *Units: 4*
- ENGL 445 - Ethnic American Autobiography *Units: 4*

English: British Literature

- ENGL 309 - Major Works of British Literature *Units: 4*
- ENGL 332 - Chaucer *Units: 4*
- ENGL 411 - Shakespeare I *Units: 4 ; G.E./G.R. Area: C4*
- ENGL 412 - Shakespeare II *Units: 4 ; G.E./G.R. Area: C4*
- ENGL 413 - Milton *Units: 4*
- ENGL 414 - Restoration and 18th-Century British Literature *Units: 4*
- ENGL 415 - 19th-Century British Literature *Units: 4*
- ENGL 416 - British Novel before 1800 *Units: 4*
- ENGL 417 - British Novel 1800-1900 *Units: 4*
- ENGL 418 - British Novel After 1900 *Units: 4*
- ENGL 440 - English Drama to 1642 *Units: 4*

English: Education

- ENGL 398 - Internship *Units: 1-3*
- ENGL 460 - Seminar in English Education *Units: 4*

English: Film

- ENGL 240 - Introduction to American Film *Units: 4 ; G.E./G.R. Area: C2*
- ENGL 447 - Film Criticism *Units: 4*

English: Foundation

- ENGL 100 - College Writing: Stretch I *Units: 3*
- ENGL 101 - College Writing: Stretch II *Units: 3 ; G.E./G.R. Area: A2*
- ENGL 102 - Accelerated College Writing *Units: 3 ; G.E./G.R. Area: A2*
- ENGL 103 - College Writing: Stretch I (English for Speakers of Other Languages) *Units: 3*
- ENGL 104 - College Writing: Stretch II (English for Speakers of Other Languages) *Units: 3 ;*

G.E./G.R. Area: A2

- ENGL 105 - College Reading for Fluency *Units: 3 ; G.E./G.R. Area: C2*
- ENGL 106 - Academic Vocabulary Development *Units: 3 ; G.E./G.R. Area: C1*
- ENGL 109 - College Writing Lab *Units: 1*
- ENGL 200 - College Writing II *Units: 3 ; G.E./G.R. Area: Writing II*
- ENGL 201 - College Writing II (English for Speakers of Other Languages) *Units: 3*
- ENGL 204 - Writing About Literature *Units: 4 ; G.E./G.R. Area: C2*
- ENGL 490 - Independent Study *Units: 1-4*

English: Global Literature

- ENGL 310 - Medieval Literature *Units: 4*
- ENGL 311 - Dante's Worlds *Units: 4*
- ENGL 327 - LGBT Literature and Queer Theory *Units: 4 ; G.E./G.R. Area: C4; Social Justice*
- ENGL 330 - Classical Literature *Units: 4*
- ENGL 331 - Global World Literature: Antiquity to the Early Modern World *Units: 4*
- ENGL 335 - Global Literature after 1900 *Units: 4*
- ENGL 341 - The Gothic *Units: 4*
- ENGL 342 - Environmental Literature *Units: 4 ; G.E./G.R. Area: C4; Sustainability*
- ENGL 343 - Detective Fiction *Units: 4*
- ENGL 345 - Comics and Graphic Novels *Units: 4 ; G.E./G.R. Area: C4*
- ENGL 430 - Bible as Literature *Units: 4*
- ENGL 431 - World Mythology *Units: 4*
- ENGL 434 - Global Short Story *Units: 4*
- ENGL 435 - Global Women's Literature *Units: 4*
- ENGL 436 - Contemporary Global Novel *Units: 4*
- ENGL 446 - Modern and Contemporary Poetry *Units: 4*
- ENGL 462 - Children's Literature before 1900 *Units: 4*
- ENGL 463 - Children's Literature after 1900 *Units: 4*

English: Graduate

- ENGL 600 - Introduction to Graduate Studies *Units: 4*
- ENGL 601 - The Literary Magazine *Units: 4*
- ENGL 602 - Graduate Workshop in Fiction *Units: 4*
- ENGL 603 - Graduate Workshop in Poetry *Units: 4*
- ENGL 610 - Medieval Literature *Units: 4*
- ENGL 611 - Renaissance Literature *Units: 4*
- ENGL 612 - Restoration and 18th-Century British Literature *Units: 4*
- ENGL 613 - 19th-Century British Literature *Units: 4*
- ENGL 614 - 20th Century British Literature *Units: 4*

- ENGL 620 - American Literature to 1900 *Units: 4*
- ENGL 621 - African-American Literature *Units: 4*
- ENGL 622 - 20th Century American Literature *Units: 4*
- ENGL 623 - Ethnic American Literature *Units: 4*
- ENGL 630 - Women's Literature *Units: 4*
- ENGL 631 - Post-Colonial Literature *Units: 4*
- ENGL 632 - Children's Literature *Units: 4*
- ENGL 633 - Environmental Literature *Units: 4*
- ENGL 640 - Studies in Literary Nonfiction *Units: 4*
- ENGL 641 - Studies in Poetry and Poetics *Units: 4*
- ENGL 651 - Theory and Practice of Teaching Oral Skills to Adults *Units: 4*
- ENGL 652 - Phonology, Morphology and Lexical Semantics *Units: 4*
- ENGL 653 - Theory and Practice of Teaching Reading to Adults *Units: 2*
- ENGL 654 - Supervised Tutoring and Teaching *Units: 2*
- ENGL 655 - Multilingualism and Second Language Acquisition *Units: 4*
- ENGL 656 - Pedagogical Grammar *Units: 4*
- ENGL 657 - Curriculum Design and Assessment in ESOL for Adult Learners *Units: 4*
- ENGL 660 - Introduction to Composition Studies Theory and Methods *Units: 4*
- ENGL 661 - Theory and Practice of Teaching Literature *Units: 4*
- ENGL 690 - Independent Study *Units: 1-4*
- ENGL 691 - University Thesis *Units: 4*
- ENGL 698 - Internship *Units: 1-3*
- ENGL 699 - Departmental Thesis *Units: 2-4*

English: Language/Grammar

- ENGL 350 - Study of Language *Units: 4*
- ENGL 351 - Modern English Grammar *Units: 4*
- ENGL 352 - Introduction to Phonology *Units: 4*
- ENGL 353 - Linguistic History of the English Language *Units: 4*
- ENGL 354 - Advanced Studies in English Vocabulary *Units: 4*
- ENGL 355 - Language and Gender *Units: 4*
- ENGL 450 - Current Theories in Formal Grammar *Units: 4*
- ENGL 451 - Language in the U.S.A. *Units: 4*
- ENGL 497 - Topics in the Study of the English Language *Units: 4*

English: Literary Theory

- ENGL 340 - Critical Theory of Literature *Units: 4*

English: Rhetoric and Composition

- ENGL 251 - Grammar for Writers *Units: 4*
- ENGL 252 - Vocabulary Building *Units: 4*
- ENGL 300 - Writing for Proficiency *Units: 3*
- ENGL 301 - Writing for Proficiency (English for Speakers of Other Languages) *Units: 3*
- ENGL 302 - Discursive Writing *Units: 3 ; GE/GR Area: UWSR*
- ENGL 303 - Advanced Expository Writing *Units: 4*
- ENGL 304 - Introduction to Technical and Professional Writing *Units: 4*
- ENGL 499 - Senior Seminar *Units: 4*

English: World Literature

- ENGL 312 - Renaissance Humanism *Units: 4*

English: Writing Workshop

- ENGL 205 - Beginning Workshop in Fiction *Units: 4 ; G.E./G.R. Area: C1*
- ENGL 206 - Beginning Workshop in Poetry *Units: 4 ; G.E./G.R. Area: C1*
- ENGL 305 - Intermediate Workshop in Fiction *Units: 4*
- ENGL 307 - Intermediate Workshop in Creative Nonfiction *Units: 4*
- ENGL 405 - Advanced Workshop in Fiction *Units: 4*
- ENGL 406 - Advanced Workshop in Poetry *Units: 4*

English, B.A.: Creative Writing Concentration

English, B.A. Program (120 units)

Program Description

The university offers the B.A. degree in English with three distinct concentrations: literature, creative writing, and English language and literacies. The student seeking a degree must observe the general university requirements stated elsewhere in this catalog as well as the specific departmental requirements stated here.

Program Learning Outcomes

Students graduating with a B.A. in English from Cal State East Bay will be able to:

- analyze and interpret literary genres represented by a range of texts;
- write in clear and cogent prose;
- demonstrate knowledge of key English language texts, including multicultural works;
- use critical theory to examine literary texts;
- conduct research relevant to the discipline of English studies and analyze connections among literary works and social issues.

Career Opportunities

Advertising Copy Writer • Author/Critic • Bookstore Manager • Continuity Writer • Corporate Communications Director • Foreign Service Office • Freelance Journalist/Writer • Greeting Card Editor/Writer • Lawyer • Librarian • Media Specialist • Newspaper Reporter • Public Information Officer • Publication Editor • Publicity Director • Publishing Agent • Radio/TV Agent • Script Writer • Teacher/Professor • Writer

Degree Requirements

- The B.A. degree requires a total of 120 units.
- The major consists of 52 units (students must complete with a grade point average of 3.0 or better);
- General Education (GE) & Graduation Requirements (GR) consists of 57 units;
- Free electives may consist of 11 units (actual number of free elective units may depend on GE/GR units).

Note: It may be possible to double count units within the graduation requirement. It may also be possible that a course satisfies both a graduation requirement and a major requirement. Students should contact their program and AACE advisors for information.

English Major Requirements (52 units)

Lower Division Core

The following 12 units are required:

- ENGL 204 - Writing About Literature Units: 4 ; G.E./G.R. Area: C2
- Take one (1) additional lower- or upper-division English major elective course for 4 units.

Choose one (1) course in creative writing for 4 units:

- ENGL 205 - Beginning Workshop in Fiction Units: 4 ; G.E./G.R. Area: C1
- ENGL 206 - Beginning Workshop in Poetry Units: 4 ; G.E./G.R. Area: C1

Upper-Division Core

The following 12 units are required:

Choose one (1) course in writing or theory for 4 units:

- ENGL 303 - Advanced Expository Writing Units: 4
- ENGL 304 - Introduction to Technical and Professional Writing Units: 4
- ENGL 307 - Intermediate Workshop in Creative Nonfiction Units: 4
- ENGL 340 - Critical Theory of Literature Units: 4

Choose one (1) course in linguistics for 4 units:

- ENGL 350 - Study of Language Units: 4
- ENGL 351 - Modern English Grammar Units: 4

Choose one (1) course in Shakespeare for 4 units:

- ENGL 411 - Shakespeare I Units: 4 ; G.E./G.R. Area: C4
- ENGL 412 - Shakespeare II Units: 4 ; G.E./G.R. Area: C4

Concentrations

The Department of English offers three concentrations for degree candidates. Students must choose one (1) of the following concentrations for 24 units as a major requirement:

- English, B.A.: British and American Literature Concentration
- English, B.A.: Creative Writing Concentration
- English, B.A.: English Language and Literacies Concentration

Senior Capstone Requirement

The following senior capstone for 4 units is required to complete the major:

- ENGL 499 - Senior Seminar *Units: 4*

Creative Writing Concentration

English majors with a concentration in creative writing must complete six (6) additional courses for 24 units as described below:

One (1) beginning workshop for 4 units, whichever course was not taken in the core curriculum:

- ENGL 205 - Beginning Workshop in Fiction *Units: 4 ; G.E./G.R. Area: C1*
- ENGL 206 - Beginning Workshop in Poetry *Units: 4 ; G.E./G.R. Area: C1*

One (1) intermediate or advanced workshop course for 4 units:

ENGL 305 Intermediate Workshop in Fiction

ENGL 406 Advanced Workshop in Poetry

Take an additional two (2) workshop courses for 8 units:

Note: ENGL 305, 405 & 406 may be taken a second time for a total of 8 units for this section only

- ENGL 305 - Intermediate Workshop in Fiction *Units: 4*
- ENGL 307 - Intermediate Workshop in Creative Nonfiction *Units: 4*
- ENGL 405 - Advanced Workshop in Fiction *Units: 4*
- ENGL 406 - Advanced Workshop in Poetry *Units: 4*

Take two elective courses for an additional 8 units: one (1) upper division course in 20th or 21st century literature and one (1) elective, from the following English Course Types:

- American/Global Literature
- American Literature
- British Literature (except ENGL 309)
- Foundation (ENGL 204 only)
- Global Literature (except ENGL 330, 342, 343, 446)
- Language/Grammar (except ENGL 354, 450, 451)
- Literary Theory
- World Literature

Other Undergraduate Degree Requirements

In addition to major requirements, every student must also complete the University's baccalaureate requirements for graduation, which are described in the Requirements, Exams & Testing chapter of this catalog.

Department Courses Listed by Course Type

English Courses

Department of English

Go to information for this department.

Courses

English: American/Global Literature

- ENGL 328 - Latina/o Literature *Units: 4 ; G.E./G.R. Area: C4*

English: American Literature

- ENGL 220 - Immigration and Migration in American Literature *Units: 4 ; G.E./G.R. Area: C2*
- ENGL 320 - Major Works of American Literature *Units: 4*
- ENGL 321 - American Indian Literature *Units: 4 ; G.E./G.R. Area: C4*
- ENGL 322 - African-American Literature Before 1945 *Units: 4 ; G.E./G.R. Area: C4; Social*

Justice

- ENGL 323 - African-American Literature After 1945 *Units: 4 ; G.E./G.R. Area: C4; Diversity*
- ENGL 324 - American Women's Literature *Units: 4 ; G.E./G.R. Area: C4; Social Justice*
- ENGL 325 - Asian-American Literature *Units: 4 ; G.E./G.R. Area: C4; Diversity*
- ENGL 421 - 19th-Century American Literature *Units: 4*
- ENGL 422 - 20th- and 21st-Century American Literature *Units: 4*
- ENGL 423 - Ethnic American Women's Literature After 1900 *Units: 4*
- ENGL 424 - American Fiction Before 1900 *Units: 4*
- ENGL 425 - American Novel After 1900 *Units: 4*
- ENGL 444 - Short Story *Units: 4*
- ENGL 445 - Ethnic American Autobiography *Units: 4*

English: British Literature

- ENGL 309 - Major Works of British Literature *Units: 4*
- ENGL 332 - Chaucer *Units: 4*
- ENGL 411 - Shakespeare I *Units: 4 ; G.E./G.R. Area: C4*
- ENGL 412 - Shakespeare II *Units: 4 ; G.E./G.R. Area: C4*
- ENGL 413 - Milton *Units: 4*
- ENGL 414 - Restoration and 18th-Century British Literature *Units: 4*
- ENGL 415 - 19th-Century British Literature *Units: 4*
- ENGL 416 - British Novel before 1800 *Units: 4*
- ENGL 417 - British Novel 1800-1900 *Units: 4*
- ENGL 418 - British Novel After 1900 *Units: 4*
- ENGL 440 - English Drama to 1642 *Units: 4*

English: Education

- ENGL 398 - Internship *Units: 1-3*
- ENGL 460 - Seminar in English Education *Units: 4*

English: Film

- ENGL 240 - Introduction to American Film *Units: 4 ; G.E./G.R. Area: C2*
- ENGL 447 - Film Criticism *Units: 4*

English: Foundation

- ENGL 100 - College Writing: Stretch I *Units: 3*
- ENGL 101 - College Writing: Stretch II *Units: 3 ; G.E./G.R. Area: A2*
- ENGL 102 - Accelerated College Writing *Units: 3 ; G.E./G.R. Area: A2*
- ENGL 103 - College Writing: Stretch I (English for Speakers of Other Languages) *Units: 3*
- ENGL 104 - College Writing: Stretch II (English for Speakers of Other Languages) *Units: 3 ; G.E./G.R. Area: A2*
- ENGL 105 - College Reading for Fluency *Units: 3 ; G.E./G.R. Area: C2*
- ENGL 106 - Academic Vocabulary Development *Units: 3 ; G.E./G.R. Area: C1*

- ENGL 109 - College Writing Lab *Units: 1*
- ENGL 200 - College Writing II *Units: 3 ; G.E./G.R. Area: Writing II*
- ENGL 201 - College Writing II (English for Speakers of Other Languages) *Units: 3*
- ENGL 204 - Writing About Literature *Units: 4 ; G.E./G.R. Area: C2*
- ENGL 490 - Independent Study *Units: 1-4*

English: Global Literature

- ENGL 310 - Medieval Literature *Units: 4*
- ENGL 311 - Dante's Worlds *Units: 4*
- ENGL 327 - LGBT Literature and Queer Theory *Units: 4 ; G.E./G.R. Area: C4; Social Justice*
- ENGL 330 - Classical Literature *Units: 4*
- ENGL 331 - Global World Literature: Antiquity to the Early Modern World *Units: 4*
- ENGL 335 - Global Literature after 1900 *Units: 4*
- ENGL 341 - The Gothic *Units: 4*
- ENGL 342 - Environmental Literature *Units: 4 ; G.E./G.R. Area: C4; Sustainability*
- ENGL 343 - Detective Fiction *Units: 4*
- ENGL 345 - Comics and Graphic Novels *Units: 4 ; G.E./G.R. Area: C4*
- ENGL 430 - Bible as Literature *Units: 4*
- ENGL 431 - World Mythology *Units: 4*
- ENGL 434 - Global Short Story *Units: 4*
- ENGL 435 - Global Women's Literature *Units: 4*
- ENGL 436 - Contemporary Global Novel *Units: 4*
- ENGL 446 - Modern and Contemporary Poetry *Units: 4*
- ENGL 462 - Children's Literature before 1900 *Units: 4*
- ENGL 463 - Children's Literature after 1900 *Units: 4*

English: Graduate

- ENGL 600 - Introduction to Graduate Studies *Units: 4*
- ENGL 601 - The Literary Magazine *Units: 4*
- ENGL 602 - Graduate Workshop in Fiction *Units: 4*
- ENGL 603 - Graduate Workshop in Poetry *Units: 4*
- ENGL 610 - Medieval Literature *Units: 4*
- ENGL 611 - Renaissance Literature *Units: 4*
- ENGL 612 - Restoration and 18th-Century British Literature *Units: 4*
- ENGL 613 - 19th-Century British Literature *Units: 4*
- ENGL 614 - 20th Century British Literature *Units: 4*
- ENGL 620 - American Literature to 1900 *Units: 4*
- ENGL 621 - African-American Literature *Units: 4*
- ENGL 622 - 20th Century American Literature *Units: 4*
- ENGL 623 - Ethnic American Literature *Units: 4*
- ENGL 630 - Women's Literature *Units: 4*
- ENGL 631 - Post-Colonial Literature *Units: 4*
- ENGL 632 - Children's Literature *Units: 4*
- ENGL 633 - Environmental Literature *Units: 4*
- ENGL 640 - Studies in Literary Nonfiction *Units: 4*
- ENGL 641 - Studies in Poetry and Poetics *Units: 4*
- ENGL 651 - Theory and Practice of Teaching Oral Skills to Adults *Units: 4*
- ENGL 652 - Phonology, Morphology and Lexical Semantics *Units: 4*
- ENGL 653 - Theory and Practice of Teaching Reading to Adults *Units: 2*
- ENGL 654 - Supervised Tutoring and Teaching *Units: 2*
- ENGL 655 - Multilingualism and Second Language Acquisition *Units: 4*

- ENGL 656 - Pedagogical Grammar *Units: 4*
- ENGL 657 - Curriculum Design and Assessment in ESOL for Adult Learners *Units: 4*
- ENGL 660 - Introduction to Composition Studies Theory and Methods *Units: 4*
- ENGL 661 - Theory and Practice of Teaching Literature *Units: 4*
- ENGL 690 - Independent Study *Units: 1-4*
- ENGL 691 - University Thesis *Units: 4*
- ENGL 698 - Internship *Units: 1-3*
- ENGL 699 - Departmental Thesis *Units: 2-4*

English: Language/Grammar

- ENGL 350 - Study of Language *Units: 4*
- ENGL 351 - Modern English Grammar *Units: 4*
- ENGL 352 - Introduction to Phonology *Units: 4*
- ENGL 353 - Linguistic History of the English Language *Units: 4*
- ENGL 354 - Advanced Studies in English Vocabulary *Units: 4*
- ENGL 355 - Language and Gender *Units: 4*
- ENGL 450 - Current Theories in Formal Grammar *Units: 4*
- ENGL 451 - Language in the U.S.A. *Units: 4*
- ENGL 497 - Topics in the Study of the English Language *Units: 4*

English: Literary Theory

- ENGL 340 - Critical Theory of Literature *Units: 4*

English: Rhetoric and Composition

- ENGL 251 - Grammar for Writers *Units: 4*
- ENGL 252 - Vocabulary Building *Units: 4*
- ENGL 300 - Writing for Proficiency *Units: 3*
- ENGL 301 - Writing for Proficiency (English for Speakers of Other Languages) *Units: 3*
- ENGL 302 - Discursive Writing *Units: 3 ; GE/GR Area: UWSR*
- ENGL 303 - Advanced Expository Writing *Units: 4*
- ENGL 304 - Introduction to Technical and Professional Writing *Units: 4*
- ENGL 499 - Senior Seminar *Units: 4*

English: World Literature

- ENGL 312 - Renaissance Humanism *Units: 4*

English: Writing Workshop

- ENGL 205 - Beginning Workshop in Fiction *Units: 4 ; G.E./G.R. Area: C1*
- ENGL 206 - Beginning Workshop in Poetry *Units: 4 ; G.E./G.R. Area: C1*
- ENGL 305 - Intermediate Workshop in Fiction *Units: 4*
- ENGL 307 - Intermediate Workshop in Creative Nonfiction *Units: 4*
- ENGL 405 - Advanced Workshop in Fiction *Units: 4*
- ENGL 406 - Advanced Workshop in Poetry *Units: 4*

English, B.A.: English Language and Literacies Concentration

English, B.A. Program (120 units)

Program Description

The university offers the B.A. degree in English with three distinct concentrations: literature, creative writing, and English language and literacies. The student seeking a degree must observe the general university requirements stated elsewhere in this catalog as well as the specific departmental requirements stated here.

Program Learning Outcomes

Students graduating with a B.A. in English from Cal State East Bay will be able to:

- analyze and interpret literary genres represented by a range of texts;
- write in clear and cogent prose;
- demonstrate knowledge of key English language texts, including multicultural works;
- use critical theory to examine literary texts;
- conduct research relevant to the discipline of English studies and analyze connections among literary works and social issues.

Career Opportunities

Advertising Copy Writer • Author/Critic • Bookstore Manager • Continuity Writer • Corporate Communications Director • Foreign Service Office • Freelance Journalist/Writer • Greeting Card Editor/Writer • Lawyer • Librarian • Media Specialist • Newspaper Reporter • Public Information Officer • Publication Editor • Publicity Director • Publishing Agent • Radio/TV Agent • Script Writer • Teacher/Professor • Writer

Degree Requirements

- The B.A. degree requires a total of 120 units.
- The major consists of 52 units (students must complete with a grade point average of 3.0 or better);
- General Education (GE) & Graduation Requirements (GR) consists of 57 units;
- Free electives may consist of 11 units (actual number of free elective units may depend on GE/GR units).

Note: It may be possible to double count units within the graduation requirement. It may also be possible that a course satisfies both a graduation requirement and a major requirement. Students should contact their program and AACE advisors for information.

English Major Requirements (52 units)

Lower Division Core

The following 12 units are required:

- ENGL 204 - Writing About Literature Units: 4 ; G.E./G.R. Area: C2
- Take one (1) additional lower- or upper-division English major elective course for 4 units.

Choose one (1) course in creative writing for 4 units:

- ENGL 205 - Beginning Workshop in Fiction Units: 4 ; G.E./G.R. Area: C1
- ENGL 206 - Beginning Workshop in Poetry Units: 4 ; G.E./G.R. Area: C1

Upper-Division Core

The following 12 units are required:

Choose one (1) course in writing or theory for 4 units:

- ENGL 303 - Advanced Expository Writing *Units: 4*
- ENGL 304 - Introduction to Technical and Professional Writing *Units: 4*
- ENGL 307 - Intermediate Workshop in Creative Nonfiction *Units: 4*
- ENGL 340 - Critical Theory of Literature *Units: 4*

Choose one (1) course in linguistics for 4 units:

- ENGL 350 - Study of Language *Units: 4*
- ENGL 351 - Modern English Grammar *Units: 4*

Choose one (1) course in Shakespeare for 4 units:

- ENGL 411 - Shakespeare I *Units: 4 ; G.E./G.R. Area: C4*
- ENGL 412 - Shakespeare II *Units: 4 ; G.E./G.R. Area: C4*

Concentrations

The Department of English offers three concentrations for degree candidates. Students must choose one (1) of the following concentrations for 24 units as a major requirement:

- English, B.A.: British and American Literature Concentration
- English, B.A.: Creative Writing Concentration
- English, B.A.: English Language and Literacies Concentration

Senior Capstone Requirement

The following senior capstone for 4 units is required to complete the major:

- ENGL 499 - Senior Seminar *Units: 4*

English Language and Literacies Concentration

English majors with a concentration in English language and literacies must complete six (6) additional courses for 24 units as described below:

The following 8 units are required:

- ENGL 340 - Critical Theory of Literature *Units: 4*

One (1) foundational course in linguistics, whichever course was not taken in the core curriculum:

- ENGL 350 - Study of Language *Units: 4*
- ENGL 351 - Modern English Grammar *Units: 4*

Two (2) additional linguistics courses for 8 units:

- ENGL 352 - Introduction to Phonology *Units: 4*
- ENGL 353 - Linguistic History of the English Language *Units: 4*
- ENGL 355 - Language and Gender *Units: 4*
- ENGL 450 - Current Theories in Formal Grammar *Units: 4*
- ENGL 451 - Language in the U.S.A. *Units: 4*
- ENGL 460 - Seminar in English Education *Units: 4*
- ENGL 497 - Topics in the Study of the English Language *Units: 4*

One (1) course for 4 units in children's literature, young adult literature, or film:

- ENGL 345 - Comics and Graphic Novels *Units: 4 ; G.E./G.R. Area: C4*
- ENGL 447 - Film Criticism *Units: 4*
- ENGL 462 - Children's Literature before 1900 *Units: 4*
- ENGL 463 - Children's Literature after 1900 *Units: 4*

One (1) additional literature elective for 4 units.

Other Undergraduate Degree Requirements

In addition to major requirements, every student must also complete the University's baccalaureate requirements for graduation, which are described in the Requirements, Exams & Testing chapter of this catalog.

Department Courses Listed by Course Type

English Courses

Department of English

Go to information for this department.

Courses

English: American/Global Literature

- ENGL 328 - Latina/o Literature *Units: 4 ; G.E./G.R. Area: C4*

English: American Literature

- ENGL 220 - Immigration and Migration in American Literature *Units: 4 ; G.E./G.R. Area: C2*
- ENGL 320 - Major Works of American Literature *Units: 4*
- ENGL 321 - American Indian Literature *Units: 4 ; G.E./G.R. Area: C4*
- ENGL 322 - African-American Literature Before 1945 *Units: 4 ; G.E./G.R. Area: C4; Social Justice*
- ENGL 323 - African-American Literature After 1945 *Units: 4 ; G.E./G.R. Area: C4; Diversity*
- ENGL 324 - American Women's Literature *Units: 4 ; G.E./G.R. Area: C4; Social Justice*
- ENGL 325 - Asian-American Literature *Units: 4 ; G.E./G.R. Area: C4; Diversity*
- ENGL 421 - 19th-Century American Literature *Units: 4*

- ENGL 422 - 20th- and 21st-Century American Literature *Units: 4*
- ENGL 423 - Ethnic American Women's Literature After 1900 *Units: 4*
- ENGL 424 - American Fiction Before 1900 *Units: 4*
- ENGL 425 - American Novel After 1900 *Units: 4*
- ENGL 444 - Short Story *Units: 4*
- ENGL 445 - Ethnic American Autobiography *Units: 4*

English: British Literature

- ENGL 309 - Major Works of British Literature *Units: 4*
- ENGL 332 - Chaucer *Units: 4*
- ENGL 411 - Shakespeare I *Units: 4 ; G.E./G.R. Area: C4*
- ENGL 412 - Shakespeare II *Units: 4 ; G.E./G.R. Area: C4*
- ENGL 413 - Milton *Units: 4*
- ENGL 414 - Restoration and 18th-Century British Literature *Units: 4*
- ENGL 415 - 19th-Century British Literature *Units: 4*
- ENGL 416 - British Novel before 1800 *Units: 4*
- ENGL 417 - British Novel 1800-1900 *Units: 4*
- ENGL 418 - British Novel After 1900 *Units: 4*
- ENGL 440 - English Drama to 1642 *Units: 4*

English: Education

- ENGL 398 - Internship *Units: 1-3*
- ENGL 460 - Seminar in English Education *Units: 4*

English: Film

- ENGL 240 - Introduction to American Film *Units: 4 ; G.E./G.R. Area: C2*
- ENGL 447 - Film Criticism *Units: 4*

English: Foundation

- ENGL 100 - College Writing: Stretch I *Units: 3*
- ENGL 101 - College Writing: Stretch II *Units: 3 ; G.E./G.R. Area: A2*
- ENGL 102 - Accelerated College Writing *Units: 3 ; G.E./G.R. Area: A2*
- ENGL 103 - College Writing: Stretch I (English for Speakers of Other Languages) *Units: 3*
- ENGL 104 - College Writing: Stretch II (English for Speakers of Other Languages) *Units: 3 ; G.E./G.R. Area: A2*
- ENGL 105 - College Reading for Fluency *Units: 3 ; G.E./G.R. Area: C2*
- ENGL 106 - Academic Vocabulary Development *Units: 3 ; G.E./G.R. Area: C1*
- ENGL 109 - College Writing Lab *Units: 1*
- ENGL 200 - College Writing II *Units: 3 ; G.E./G.R. Area: Writing II*
- ENGL 201 - College Writing II (English for Speakers of Other Languages) *Units: 3*
- ENGL 204 - Writing About Literature *Units: 4 ; G.E./G.R. Area: C2*
- ENGL 490 - Independent Study *Units: 1-4*

English: Global Literature

- ENGL 310 - Medieval Literature *Units: 4*
- ENGL 311 - Dante's Worlds *Units: 4*
- ENGL 327 - LGBT Literature and Queer Theory *Units: 4 ; G.E./G.R. Area: C4; Social Justice*
- ENGL 330 - Classical Literature *Units: 4*
- ENGL 331 - Global World Literature: Antiquity to the Early Modern World *Units: 4*
- ENGL 335 - Global Literature after 1900 *Units: 4*
- ENGL 341 - The Gothic *Units: 4*
- ENGL 342 - Environmental Literature *Units: 4 ; G.E./G.R. Area: C4; Sustainability*

- ENGL 343 - Detective Fiction *Units: 4*
- ENGL 345 - Comics and Graphic Novels *Units: 4 ; G.E./G.R. Area: C4*
- ENGL 430 - Bible as Literature *Units: 4*
- ENGL 431 - World Mythology *Units: 4*
- ENGL 434 - Global Short Story *Units: 4*
- ENGL 435 - Global Women's Literature *Units: 4*
- ENGL 436 - Contemporary Global Novel *Units: 4*
- ENGL 446 - Modern and Contemporary Poetry *Units: 4*
- ENGL 462 - Children's Literature before 1900 *Units: 4*
- ENGL 463 - Children's Literature after 1900 *Units: 4*

English: Graduate

- ENGL 600 - Introduction to Graduate Studies *Units: 4*
- ENGL 601 - The Literary Magazine *Units: 4*
- ENGL 602 - Graduate Workshop in Fiction *Units: 4*
- ENGL 603 - Graduate Workshop in Poetry *Units: 4*
- ENGL 610 - Medieval Literature *Units: 4*
- ENGL 611 - Renaissance Literature *Units: 4*
- ENGL 612 - Restoration and 18th-Century British Literature *Units: 4*
- ENGL 613 - 19th-Century British Literature *Units: 4*
- ENGL 614 - 20th Century British Literature *Units: 4*
- ENGL 620 - American Literature to 1900 *Units: 4*
- ENGL 621 - African-American Literature *Units: 4*
- ENGL 622 - 20th Century American Literature *Units: 4*
- ENGL 623 - Ethnic American Literature *Units: 4*
- ENGL 630 - Women's Literature *Units: 4*
- ENGL 631 - Post-Colonial Literature *Units: 4*
- ENGL 632 - Children's Literature *Units: 4*
- ENGL 633 - Environmental Literature *Units: 4*
- ENGL 640 - Studies in Literary Nonfiction *Units: 4*
- ENGL 641 - Studies in Poetry and Poetics *Units: 4*
- ENGL 651 - Theory and Practice of Teaching Oral Skills to Adults *Units: 4*
- ENGL 652 - Phonology, Morphology and Lexical Semantics *Units: 4*
- ENGL 653 - Theory and Practice of Teaching Reading to Adults *Units: 2*
- ENGL 654 - Supervised Tutoring and Teaching *Units: 2*
- ENGL 655 - Multilingualism and Second Language Acquisition *Units: 4*
- ENGL 656 - Pedagogical Grammar *Units: 4*
- ENGL 657 - Curriculum Design and Assessment in ESOL for Adult Learners *Units: 4*
- ENGL 660 - Introduction to Composition Studies Theory and Methods *Units: 4*
- ENGL 661 - Theory and Practice of Teaching Literature *Units: 4*
- ENGL 690 - Independent Study *Units: 1-4*
- ENGL 691 - University Thesis *Units: 4*
- ENGL 698 - Internship *Units: 1-3*
- ENGL 699 - Departmental Thesis *Units: 2-4*

English: Language/Grammar

- ENGL 350 - Study of Language *Units: 4*
- ENGL 351 - Modern English Grammar *Units: 4*
- ENGL 352 - Introduction to Phonology *Units: 4*
- ENGL 353 - Linguistic History of the English Language *Units: 4*
- ENGL 354 - Advanced Studies in English Vocabulary *Units: 4*

- ENGL 355 - Language and Gender *Units: 4*
- ENGL 450 - Current Theories in Formal Grammar *Units: 4*
- ENGL 451 - Language in the U.S.A. *Units: 4*
- ENGL 497 - Topics in the Study of the English Language *Units: 4*

English: Literary Theory

- ENGL 340 - Critical Theory of Literature *Units: 4*

English: Rhetoric and Composition

- ENGL 251 - Grammar for Writers *Units: 4*
- ENGL 252 - Vocabulary Building *Units: 4*
- ENGL 300 - Writing for Proficiency *Units: 3*
- ENGL 301 - Writing for Proficiency (English for Speakers of Other Languages) *Units: 3*
- ENGL 302 - Discursive Writing *Units: 3 ; GE/GR Area: UWSR*
- ENGL 303 - Advanced Expository Writing *Units: 4*
- ENGL 304 - Introduction to Technical and Professional Writing *Units: 4*
- ENGL 499 - Senior Seminar *Units: 4*

English: World Literature

- ENGL 312 - Renaissance Humanism *Units: 4*

English: Writing Workshop

- ENGL 205 - Beginning Workshop in Fiction *Units: 4 ; G.E./G.R. Area: C1*
- ENGL 206 - Beginning Workshop in Poetry *Units: 4 ; G.E./G.R. Area: C1*
- ENGL 305 - Intermediate Workshop in Fiction *Units: 4*
- ENGL 307 - Intermediate Workshop in Creative Nonfiction *Units: 4*
- ENGL 405 - Advanced Workshop in Fiction *Units: 4*
- ENGL 406 - Advanced Workshop in Poetry *Units: 4*

Master

English, M.A.

English, M.A. Program

Program Description

The university offers the Master of Arts degree in English. Although there is no separate degree offered in creative writing, it is possible to satisfy the thesis option for the M.A. in English by work in fiction, poetry, or drama. Students seeking a degree must observe the general university requirements stated elsewhere in this catalog as well as the specific departmental requirements stated here. (Note: The M.A. TESOL program is a separate M.A. program.)

Program Learning Outcomes

Students graduating with an M.A. in English from Cal State East Bay will be able to:

1. analyze and interpret various kinds of diverse texts in clear and cogent prose;
2. discuss diverse theoretical perspectives about literature, pedagogy, or linguistics;

3. demonstrate facility with conducting research in traditional/nontraditional ways, including print and electronic library research and data analysis;
4. demonstrate the ability to learn collaboratively and independently.

Admission for the M.A. in English (Literature, Composition, Creative Writing)

To apply for admission to the Master of Arts program in English, students must complete the online university application at CALSTATE Apply. Please contact the Graduate Coordinator for details on additional materials to be sent directly to the English Department. The Office of Graduate Admissions will then send the application to the English Department where it will be accepted or rejected.

To be admitted to the M.A. program in English, applicants must:

1. hold the B.A. degree from an accredited college or university, with a major in English, and
2. have an undergraduate GPA in English courses of at least 3.0.

If applicants cannot comply with these requirements, they may petition the department by letter for special consideration.

Upon admittance to the graduate program in English, students should immediately arrange through the English Department Office to consult a graduate adviser on selecting courses.

"Classified Graduate" Status and Advancement to Candidacy

Students are normally admitted to the program in English as a "Conditionally Classified Graduate" student. One condition to their being a "Classified Graduate" is that they pass ENGL 600 with a grade of "A" or "B". Another is that students must satisfy the University Writing Skills Requirement. There may be other conditions to the "Classified Graduate" status if they have been admitted to the program with deficiencies; students should consult with a graduate adviser to determine whether this is the case. After all conditions have been met, students will be granted "Classified Graduate" status as a graduate student in English. To Advance to Candidacy for the M.A. in English, students must complete 20 semester-units of graduate coursework (including ENGL 600) acceptable for the M.A. For information on meeting the University Writing Skills Requirement, see the Testing Office website at www.csueastbay.edu/testing.

Applying for Graduation

Students must apply formally to graduate with a master's degree, by submitting a "Candidate for Degree" application by the filing deadlines (March 1 for Summer/Fall graduation or October 1 for Spring graduation).

English Degree Requirements (32 units)

Degree Requirements

Students must complete, with a grade point average of 3.0 or better, 32 semester-units of credit approved by a graduate adviser.

Required Course

The following one (1) course for 4 units is required:

- ENGL 600 - Introduction to Graduate Studies *Units: 4*

Elective Courses

Choose 24 units of electives from the following two groups as outlined:

American and British Literature

Three (3) 600-level literature courses for 12 units in both American and British literature are required, one of which must be before 1900, from among the following:

- ENGL 610 - Medieval Literature *Units: 4*
- ENGL 611 - Renaissance Literature *Units: 4*
- ENGL 612 - Restoration and 18th-Century British Literature *Units: 4*
- ENGL 613 - 19th-Century British Literature *Units: 4*
- ENGL 614 - 20th Century British Literature *Units: 4*
- ENGL 620 - American Literature to 1900 *Units: 4*
- ENGL 621 - African-American Literature *Units: 4*
- ENGL 622 - 20th Century American Literature *Units: 4*
- ENGL 623 - Ethnic American Literature *Units: 4*
- ENGL 630 - Women's Literature *Units: 4*
- ENGL 631 - Post-Colonial Literature *Units: 4*
- ENGL 632 - Children's Literature *Units: 4*
- ENGL 633 - Environmental Literature *Units: 4*
- ENGL 640 - Studies in Literary Nonfiction *Units: 4*
- ENGL 641 - Studies in Poetry and Poetics *Units: 4*

Creative Writing, Literature, Linguistics, or Pedagogy

Three (3) 600-level courses for 12 units in literature, creative writing, pedagogy, or linguistics are required from among the following:

- ENGL 601 - The Literary Magazine *Units: 4*
- ENGL 602 - Graduate Workshop in Fiction *Units: 4*
- ENGL 603 - Graduate Workshop in Poetry *Units: 4*
- ENGL 610 - Medieval Literature *Units: 4*
- ENGL 611 - Renaissance Literature *Units: 4*
- ENGL 612 - Restoration and 18th-Century British Literature *Units: 4*
- ENGL 613 - 19th-Century British Literature *Units: 4*
- ENGL 614 - 20th Century British Literature *Units: 4*
- ENGL 620 - American Literature to 1900 *Units: 4*
- ENGL 621 - African-American Literature *Units: 4*
- ENGL 622 - 20th Century American Literature *Units: 4*
- ENGL 623 - Ethnic American Literature *Units: 4*

- ENGL 630 - Women's Literature *Units: 4*
- ENGL 631 - Post-Colonial Literature *Units: 4*
- ENGL 632 - Children's Literature *Units: 4*
- ENGL 633 - Environmental Literature *Units: 4*
- ENGL 640 - Studies in Literary Nonfiction *Units: 4*
- ENGL 641 - Studies in Poetry and Poetics *Units: 4*
- ENGL 652 - Phonology, Morphology and Lexical Semantics *Units: 4*
- ENGL 653 - Theory and Practice of Teaching Reading to Adults *Units: 2*
- ENGL 661 - Theory and Practice of Teaching Literature *Units: 4*

Capstone Requirement

Students must select one (1) of the capstone experiences for 4 units to complete the program requirements:

University Thesis Experience

Students may petition to write a critical or creative thesis. Students who elect to submit a thesis must comply with the thesis instructions of the Department of English as well as those in the University Thesis Writing Guide available online at: www.csueastbay.edu/thesiswritingguide. Thesis proposals must be approved by two regular members of the English faculty, one as "director" and one as "second reader," before a thesis can be undertaken. Faculty members are not obliged to accept thesis proposals or to direct theses.

For those who elect to submit an approved thesis, ONE (1) exit examination in the following areas is additionally required:

- an historical period of British literature
- an historical period of American literature
- in composition studies
- ENGL 691 - University Thesis *Units: 4*

Comprehensive Exams Experience

For those who do not elect to submit an approved thesis, TWO (2) exit examinations in the following areas are required:

- an historical period of British literature
- an historical period of American literature
- in composition studies

Plus the student must take 4 units of coursework. Students should consult a graduate adviser for details.

- ENGL 690 - Independent Study *Units: 1-4 (4 units required) OR*
- A 400-level or 600-level course elective in the English department for 4 units.

Other Graduate & Post-Baccalaureate Degree Requirements

In addition to departmental requirements, every student must also satisfy the University requirements for graduation as described throughout this catalog. These include the 70% unit residence requirement; the five-year rule on currency of subject matter; the minimum number of units in 600-level courses; the "C" minimum grade for each graduate course; the 3.00 cumulative grade point average; and the University Writing Skills Requirement.

Note: For information on meeting the University Writing Skills Requirement, see the Testing Office website at www.csueastbay.edu/testing or call (510) 885-3661.

Department Courses Listed by Course Type

English Courses

Department of English

Go to information for this department.

Courses

English: American/Global Literature

- ENGL 328 - Latina/o Literature *Units: 4 ; G.E./G.R. Area: C4*

English: American Literature

- ENGL 220 - Immigration and Migration in American Literature *Units: 4 ; G.E./G.R. Area: C2*
- ENGL 320 - Major Works of American Literature *Units: 4*
- ENGL 321 - American Indian Literature *Units: 4 ; G.E./G.R. Area: C4*
- ENGL 322 - African-American Literature Before 1945 *Units: 4 ; G.E./G.R. Area: C4; Social Justice*
- ENGL 323 - African-American Literature After 1945 *Units: 4 ; G.E./G.R. Area: C4; Diversity*
- ENGL 324 - American Women's Literature *Units: 4 ; G.E./G.R. Area: C4; Social Justice*
- ENGL 325 - Asian-American Literature *Units: 4 ; G.E./G.R. Area: C4; Diversity*
- ENGL 421 - 19th-Century American Literature *Units: 4*
- ENGL 422 - 20th- and 21st-Century American Literature *Units: 4*
- ENGL 423 - Ethnic American Women's Literature After 1900 *Units: 4*
- ENGL 424 - American Fiction Before 1900 *Units: 4*
- ENGL 425 - American Novel After 1900 *Units: 4*
- ENGL 444 - Short Story *Units: 4*
- ENGL 445 - Ethnic American Autobiography *Units: 4*

English: British Literature

- ENGL 309 - Major Works of British Literature *Units: 4*
- ENGL 332 - Chaucer *Units: 4*
- ENGL 411 - Shakespeare I *Units: 4 ; G.E./G.R. Area: C4*
- ENGL 412 - Shakespeare II *Units: 4 ; G.E./G.R. Area: C4*
- ENGL 413 - Milton *Units: 4*
- ENGL 414 - Restoration and 18th-Century British Literature *Units: 4*
- ENGL 415 - 19th-Century British Literature *Units: 4*
- ENGL 416 - British Novel before 1800 *Units: 4*
- ENGL 417 - British Novel 1800-1900 *Units: 4*

- ENGL 418 - British Novel After 1900 *Units: 4*
- ENGL 440 - English Drama to 1642 *Units: 4*

English: Education

- ENGL 398 - Internship *Units: 1-3*
- ENGL 460 - Seminar in English Education *Units: 4*

English: Film

- ENGL 240 - Introduction to American Film *Units: 4 ; G.E./G.R. Area: C2*
- ENGL 447 - Film Criticism *Units: 4*

English: Foundation

- ENGL 100 - College Writing: Stretch I *Units: 3*
- ENGL 101 - College Writing: Stretch II *Units: 3 ; G.E./G.R. Area: A2*
- ENGL 102 - Accelerated College Writing *Units: 3 ; G.E./G.R. Area: A2*
- ENGL 103 - College Writing: Stretch I (English for Speakers of Other Languages) *Units: 3*
- ENGL 104 - College Writing: Stretch II (English for Speakers of Other Languages) *Units: 3 ;*

G.E./G.R. Area: A2

- ENGL 105 - College Reading for Fluency *Units: 3 ; G.E./G.R. Area: C2*
- ENGL 106 - Academic Vocabulary Development *Units: 3 ; G.E./G.R. Area: C1*
- ENGL 109 - College Writing Lab *Units: 1*
- ENGL 200 - College Writing II *Units: 3 ; G.E./G.R. Area: Writing II*
- ENGL 201 - College Writing II (English for Speakers of Other Languages) *Units: 3*
- ENGL 204 - Writing About Literature *Units: 4 ; G.E./G.R. Area: C2*
- ENGL 490 - Independent Study *Units: 1-4*

English: Global Literature

- ENGL 310 - Medieval Literature *Units: 4*
- ENGL 311 - Dante's Worlds *Units: 4*
- ENGL 327 - LGBT Literature and Queer Theory *Units: 4 ; G.E./G.R. Area: C4; Social Justice*
- ENGL 330 - Classical Literature *Units: 4*
- ENGL 331 - Global World Literature: Antiquity to the Early Modern World *Units: 4*
- ENGL 335 - Global Literature after 1900 *Units: 4*
- ENGL 341 - The Gothic *Units: 4*
- ENGL 342 - Environmental Literature *Units: 4 ; G.E./G.R. Area: C4; Sustainability*
- ENGL 343 - Detective Fiction *Units: 4*
- ENGL 345 - Comics and Graphic Novels *Units: 4 ; G.E./G.R. Area: C4*
- ENGL 430 - Bible as Literature *Units: 4*
- ENGL 431 - World Mythology *Units: 4*
- ENGL 434 - Global Short Story *Units: 4*
- ENGL 435 - Global Women's Literature *Units: 4*
- ENGL 436 - Contemporary Global Novel *Units: 4*
- ENGL 446 - Modern and Contemporary Poetry *Units: 4*
- ENGL 462 - Children's Literature before 1900 *Units: 4*
- ENGL 463 - Children's Literature after 1900 *Units: 4*

English: Graduate

- ENGL 600 - Introduction to Graduate Studies *Units: 4*
- ENGL 601 - The Literary Magazine *Units: 4*
- ENGL 602 - Graduate Workshop in Fiction *Units: 4*
- ENGL 603 - Graduate Workshop in Poetry *Units: 4*
- ENGL 610 - Medieval Literature *Units: 4*

- ENGL 611 - Renaissance Literature *Units: 4*
- ENGL 612 - Restoration and 18th-Century British Literature *Units: 4*
- ENGL 613 - 19th-Century British Literature *Units: 4*
- ENGL 614 - 20th Century British Literature *Units: 4*
- ENGL 620 - American Literature to 1900 *Units: 4*
- ENGL 621 - African-American Literature *Units: 4*
- ENGL 622 - 20th Century American Literature *Units: 4*
- ENGL 623 - Ethnic American Literature *Units: 4*
- ENGL 630 - Women's Literature *Units: 4*
- ENGL 631 - Post-Colonial Literature *Units: 4*
- ENGL 632 - Children's Literature *Units: 4*
- ENGL 633 - Environmental Literature *Units: 4*
- ENGL 640 - Studies in Literary Nonfiction *Units: 4*
- ENGL 641 - Studies in Poetry and Poetics *Units: 4*
- ENGL 651 - Theory and Practice of Teaching Oral Skills to Adults *Units: 4*
- ENGL 652 - Phonology, Morphology and Lexical Semantics *Units: 4*
- ENGL 653 - Theory and Practice of Teaching Reading to Adults *Units: 2*
- ENGL 654 - Supervised Tutoring and Teaching *Units: 2*
- ENGL 655 - Multilingualism and Second Language Acquisition *Units: 4*
- ENGL 656 - Pedagogical Grammar *Units: 4*
- ENGL 657 - Curriculum Design and Assessment in ESOL for Adult Learners *Units: 4*
- ENGL 660 - Introduction to Composition Studies Theory and Methods *Units: 4*
- ENGL 661 - Theory and Practice of Teaching Literature *Units: 4*
- ENGL 690 - Independent Study *Units: 1-4*
- ENGL 691 - University Thesis *Units: 4*
- ENGL 698 - Internship *Units: 1-3*
- ENGL 699 - Departmental Thesis *Units: 2-4*

English: Language/Grammar

- ENGL 350 - Study of Language *Units: 4*
- ENGL 351 - Modern English Grammar *Units: 4*
- ENGL 352 - Introduction to Phonology *Units: 4*
- ENGL 353 - Linguistic History of the English Language *Units: 4*
- ENGL 354 - Advanced Studies in English Vocabulary *Units: 4*
- ENGL 355 - Language and Gender *Units: 4*
- ENGL 450 - Current Theories in Formal Grammar *Units: 4*
- ENGL 451 - Language in the U.S.A. *Units: 4*
- ENGL 497 - Topics in the Study of the English Language *Units: 4*

English: Literary Theory

- ENGL 340 - Critical Theory of Literature *Units: 4*

English: Rhetoric and Composition

- ENGL 251 - Grammar for Writers *Units: 4*
- ENGL 252 - Vocabulary Building *Units: 4*
- ENGL 300 - Writing for Proficiency *Units: 3*
- ENGL 301 - Writing for Proficiency (English for Speakers of Other Languages) *Units: 3*
- ENGL 302 - Discursive Writing *Units: 3 ; GE/GR Area: UWSR*
- ENGL 303 - Advanced Expository Writing *Units: 4*
- ENGL 304 - Introduction to Technical and Professional Writing *Units: 4*
- ENGL 499 - Senior Seminar *Units: 4*

English: World Literature

- ENGL 312 - Renaissance Humanism *Units: 4*
- English: Writing Workshop**
- ENGL 205 - Beginning Workshop in Fiction *Units: 4 ; G.E./G.R. Area: C1*
- ENGL 206 - Beginning Workshop in Poetry *Units: 4 ; G.E./G.R. Area: C1*
- ENGL 305 - Intermediate Workshop in Fiction *Units: 4*
- ENGL 307 - Intermediate Workshop in Creative Nonfiction *Units: 4*
- ENGL 405 - Advanced Workshop in Fiction *Units: 4*
- ENGL 406 - Advanced Workshop in Poetry *Units: 4*

Teaching English to Speakers of Other Languages, M.A.

Teaching English to Speakers of Other Languages, M.A. Program

Program Description

CSUEB's M.A. TESOL program provides students with a strong generalist preparation to work with adult English learners while still allowing students to explore particular specialties, such as general linguistics or composition studies. The program is organized around a cohort model which helps to create a strong sense of connection between classmates. There are eight required classes (28 units) as well as a departmental thesis (2 units). Most students complete the program in two academic years.

Career Opportunities

- Teach ESOL at community colleges and adult schools
- Teach composition to bilingual students at four-year colleges and universities
- Teach in intensive English programs
- Teach workplace English in the private sector
- Teach English as a foreign language anywhere in the world
- Prepare for Ph.D. study in English studies, linguistics, or education
- Work in a variety of jobs for ESOL textbook publishers
- Develop ESOL materials
- Start a tutoring business

Admission Requirements

To be admitted to the M.A. in Teaching English to Speakers of Other Languages (TESOL), students must hold a baccalaureate degree in any field with a 3.0 overall GPA, and have completed the prerequisite courses or their equivalents.

Student Standing and Progress Toward the Degree

Students are normally admitted to the M.A. TESOL as "Conditionally Classified Graduate" students. Once students have completed any outstanding prerequisite courses and have passed the Writing Skills Test, they may apply for "Classified Graduate" status. In order to advance to candidacy, students must have completed 18 units of graduate-level coursework with grades of "B" and higher.

Program Learning Outcomes

Students graduating with an M.A. TESOL from Cal State East Bay will be able to:

1. communicate effectively in the profession both orally and in writing;
2. apply information literacy principles in their work as TESOL professionals;
3. draw on knowledge of language ability to shape their instructional choices;
4. use pedagogical content knowledge appropriate for a particular group of language learners;
5. integrate principles of diversity and inclusiveness in their classrooms;
6. select life-long learning strategies to stay current in the profession.

TESOL Degree Requirements (30 units)

Prerequisites

The following prerequisite courses or their equivalents for 0-8 units are to be completed prior to taking the major coursework:

- ENGL 350 - Study of Language *Units: 4*
- ENGL 351 - Modern English Grammar *Units: 4*

Core Courses

All 28 units of the following courses are required:

- ENGL 651 - Theory and Practice of Teaching Oral Skills to Adults *Units: 4*
- ENGL 652 - Phonology, Morphology and Lexical Semantics *Units: 4*
- ENGL 653 - Theory and Practice of Teaching Reading to Adults *Units: 2*
- ENGL 654 - Supervised Tutoring and Teaching *Units: 2*
- ENGL 655 - Multilingualism and Second Language Acquisition *Units: 4*
- ENGL 656 - Pedagogical Grammar *Units: 4*
- ENGL 657 - Curriculum Design and Assessment in ESOL for Adult Learners *Units: 4*
- ENGL 660 - Introduction to Composition Studies Theory and Methods *Units: 4*

Capstone Requirement

The following capstone course for 2 units is required to complete the major requirements:

- ENGL 699 - Departmental Thesis *Units: 2-4*

Other Graduate & Post-Baccalaureate Degree Requirements

In addition to departmental requirements, every student must also satisfy the University requirements for graduation as described throughout this catalog. These include the 70% unit residence requirement; the five-year rule on currency of subject matter; the minimum number of units in 600-level courses; the "C"

minimum grade for each graduate course; the 3.00 cumulative grade point average; and the University Writing Skills Requirement.

Note: For information on meeting the University Writing Skills Requirement, see the Testing Office website at www.csueastbay.edu/testing or call (510) 885-3661.

Department Courses Listed by Course Type

English Courses

Department of English

Go to information for this department.

Courses

English: American/Global Literature

- ENGL 328 - Latina/o Literature *Units: 4 ; G.E./G.R. Area: C4*

English: American Literature

- ENGL 220 - Immigration and Migration in American Literature *Units: 4 ; G.E./G.R. Area: C2*
- ENGL 320 - Major Works of American Literature *Units: 4*
- ENGL 321 - American Indian Literature *Units: 4 ; G.E./G.R. Area: C4*
- ENGL 322 - African-American Literature Before 1945 *Units: 4 ; G.E./G.R. Area: C4; Social Justice*
- ENGL 323 - African-American Literature After 1945 *Units: 4 ; G.E./G.R. Area: C4; Diversity*
- ENGL 324 - American Women's Literature *Units: 4 ; G.E./G.R. Area: C4; Social Justice*
- ENGL 325 - Asian-American Literature *Units: 4 ; G.E./G.R. Area: C4; Diversity*
- ENGL 421 - 19th-Century American Literature *Units: 4*
- ENGL 422 - 20th- and 21st-Century American Literature *Units: 4*
- ENGL 423 - Ethnic American Women's Literature After 1900 *Units: 4*
- ENGL 424 - American Fiction Before 1900 *Units: 4*
- ENGL 425 - American Novel After 1900 *Units: 4*
- ENGL 444 - Short Story *Units: 4*
- ENGL 445 - Ethnic American Autobiography *Units: 4*

English: British Literature

- ENGL 309 - Major Works of British Literature *Units: 4*
- ENGL 332 - Chaucer *Units: 4*
- ENGL 411 - Shakespeare I *Units: 4 ; G.E./G.R. Area: C4*
- ENGL 412 - Shakespeare II *Units: 4 ; G.E./G.R. Area: C4*
- ENGL 413 - Milton *Units: 4*
- ENGL 414 - Restoration and 18th-Century British Literature *Units: 4*
- ENGL 415 - 19th-Century British Literature *Units: 4*
- ENGL 416 - British Novel before 1800 *Units: 4*
- ENGL 417 - British Novel 1800-1900 *Units: 4*
- ENGL 418 - British Novel After 1900 *Units: 4*
- ENGL 440 - English Drama to 1642 *Units: 4*

English: Education

- ENGL 398 - Internship *Units: 1-3*
- ENGL 460 - Seminar in English Education *Units: 4*

English: Film

- ENGL 240 - Introduction to American Film *Units: 4 ; G.E./G.R. Area: C2*
- ENGL 447 - Film Criticism *Units: 4*

English: Foundation

- ENGL 100 - College Writing: Stretch I *Units: 3*
- ENGL 101 - College Writing: Stretch II *Units: 3 ; G.E./G.R. Area: A2*
- ENGL 102 - Accelerated College Writing *Units: 3 ; G.E./G.R. Area: A2*
- ENGL 103 - College Writing: Stretch I (English for Speakers of Other Languages) *Units: 3*
- ENGL 104 - College Writing: Stretch II (English for Speakers of Other Languages) *Units: 3 ;*

G.E./G.R. Area: A2

- ENGL 105 - College Reading for Fluency *Units: 3 ; G.E./G.R. Area: C2*
- ENGL 106 - Academic Vocabulary Development *Units: 3 ; G.E./G.R. Area: C1*
- ENGL 109 - College Writing Lab *Units: 1*
- ENGL 200 - College Writing II *Units: 3 ; G.E./G.R. Area: Writing II*
- ENGL 201 - College Writing II (English for Speakers of Other Languages) *Units: 3*
- ENGL 204 - Writing About Literature *Units: 4 ; G.E./G.R. Area: C2*
- ENGL 490 - Independent Study *Units: 1-4*

English: Global Literature

- ENGL 310 - Medieval Literature *Units: 4*
- ENGL 311 - Dante's Worlds *Units: 4*
- ENGL 327 - LGBT Literature and Queer Theory *Units: 4 ; G.E./G.R. Area: C4; Social Justice*
- ENGL 330 - Classical Literature *Units: 4*
- ENGL 331 - Global World Literature: Antiquity to the Early Modern World *Units: 4*
- ENGL 335 - Global Literature after 1900 *Units: 4*
- ENGL 341 - The Gothic *Units: 4*
- ENGL 342 - Environmental Literature *Units: 4 ; G.E./G.R. Area: C4; Sustainability*
- ENGL 343 - Detective Fiction *Units: 4*
- ENGL 345 - Comics and Graphic Novels *Units: 4 ; G.E./G.R. Area: C4*
- ENGL 430 - Bible as Literature *Units: 4*
- ENGL 431 - World Mythology *Units: 4*
- ENGL 434 - Global Short Story *Units: 4*
- ENGL 435 - Global Women's Literature *Units: 4*
- ENGL 436 - Contemporary Global Novel *Units: 4*
- ENGL 446 - Modern and Contemporary Poetry *Units: 4*
- ENGL 462 - Children's Literature before 1900 *Units: 4*
- ENGL 463 - Children's Literature after 1900 *Units: 4*

English: Graduate

- ENGL 600 - Introduction to Graduate Studies *Units: 4*
- ENGL 601 - The Literary Magazine *Units: 4*
- ENGL 602 - Graduate Workshop in Fiction *Units: 4*
- ENGL 603 - Graduate Workshop in Poetry *Units: 4*
- ENGL 610 - Medieval Literature *Units: 4*
- ENGL 611 - Renaissance Literature *Units: 4*
- ENGL 612 - Restoration and 18th-Century British Literature *Units: 4*
- ENGL 613 - 19th-Century British Literature *Units: 4*
- ENGL 614 - 20th Century British Literature *Units: 4*

- ENGL 620 - American Literature to 1900 *Units: 4*
- ENGL 621 - African-American Literature *Units: 4*
- ENGL 622 - 20th Century American Literature *Units: 4*
- ENGL 623 - Ethnic American Literature *Units: 4*
- ENGL 630 - Women's Literature *Units: 4*
- ENGL 631 - Post-Colonial Literature *Units: 4*
- ENGL 632 - Children's Literature *Units: 4*
- ENGL 633 - Environmental Literature *Units: 4*
- ENGL 640 - Studies in Literary Nonfiction *Units: 4*
- ENGL 641 - Studies in Poetry and Poetics *Units: 4*
- ENGL 651 - Theory and Practice of Teaching Oral Skills to Adults *Units: 4*
- ENGL 652 - Phonology, Morphology and Lexical Semantics *Units: 4*
- ENGL 653 - Theory and Practice of Teaching Reading to Adults *Units: 2*
- ENGL 654 - Supervised Tutoring and Teaching *Units: 2*
- ENGL 655 - Multilingualism and Second Language Acquisition *Units: 4*
- ENGL 656 - Pedagogical Grammar *Units: 4*
- ENGL 657 - Curriculum Design and Assessment in ESOL for Adult Learners *Units: 4*
- ENGL 660 - Introduction to Composition Studies Theory and Methods *Units: 4*
- ENGL 661 - Theory and Practice of Teaching Literature *Units: 4*
- ENGL 690 - Independent Study *Units: 1-4*
- ENGL 691 - University Thesis *Units: 4*
- ENGL 698 - Internship *Units: 1-3*
- ENGL 699 - Departmental Thesis *Units: 2-4*

English: Language/Grammar

- ENGL 350 - Study of Language *Units: 4*
- ENGL 351 - Modern English Grammar *Units: 4*
- ENGL 352 - Introduction to Phonology *Units: 4*
- ENGL 353 - Linguistic History of the English Language *Units: 4*
- ENGL 354 - Advanced Studies in English Vocabulary *Units: 4*
- ENGL 355 - Language and Gender *Units: 4*
- ENGL 450 - Current Theories in Formal Grammar *Units: 4*
- ENGL 451 - Language in the U.S.A. *Units: 4*
- ENGL 497 - Topics in the Study of the English Language *Units: 4*

English: Literary Theory

- ENGL 340 - Critical Theory of Literature *Units: 4*

English: Rhetoric and Composition

- ENGL 251 - Grammar for Writers *Units: 4*
- ENGL 252 - Vocabulary Building *Units: 4*
- ENGL 300 - Writing for Proficiency *Units: 3*
- ENGL 301 - Writing for Proficiency (English for Speakers of Other Languages) *Units: 3*
- ENGL 302 - Discursive Writing *Units: 3 ; GE/GR Area: UWSR*
- ENGL 303 - Advanced Expository Writing *Units: 4*
- ENGL 304 - Introduction to Technical and Professional Writing *Units: 4*
- ENGL 499 - Senior Seminar *Units: 4*

English: World Literature

- ENGL 312 - Renaissance Humanism *Units: 4*

English: Writing Workshop

- ENGL 205 - Beginning Workshop in Fiction *Units: 4 ; G.E./G.R. Area: C1*
- ENGL 206 - Beginning Workshop in Poetry *Units: 4 ; G.E./G.R. Area: C1*
- ENGL 305 - Intermediate Workshop in Fiction *Units: 4*
- ENGL 307 - Intermediate Workshop in Creative Nonfiction *Units: 4*
- ENGL 405 - Advanced Workshop in Fiction *Units: 4*
- ENGL 406 - Advanced Workshop in Poetry *Units: 4*

Minor

Creative Writing Minor

Minor Requirements (22-24 units)

The creative writing minor requires 22-24 units in creative writing and literature.

Lower Division Courses

The following courses are required (6-8 units). See note below about unit requirements.

- ENGL 205 - Beginning Workshop in Fiction *Units: 4 ; G.E./G.R. Area: C1*
- ENGL 206 - Beginning Workshop in Poetry *Units: 4 ; G.E./G.R. Area: C1*

Note: Students who have transferred the satisfactorily-completed, lower-division requirements can meet this requirement with six (6) units.

Upper Division Courses

An additional 16 units are required as described below:

- Take one (1) upper-division course in literature for 4 units
- In addition, choose three (3) upper-division courses in creative writing from the list below for 12 units:
- ENGL 305 - Intermediate Workshop in Fiction *Units: 4*
 - ENGL 307 - Intermediate Workshop in Creative Nonfiction *Units: 4*
 - ENGL 405 - Advanced Workshop in Fiction *Units: 4*
 - ENGL 406 - Advanced Workshop in Poetry *Units: 4*

Department Courses Listed by Course Type

English Courses

Department of English

Go to information for this department.

Courses

English: American/Global Literature

- ENGL 328 - Latina/o Literature *Units: 4 ; G.E./G.R. Area: C4*

English: American Literature

- ENGL 220 - Immigration and Migration in American Literature *Units: 4 ; G.E./G.R. Area: C2*
- ENGL 320 - Major Works of American Literature *Units: 4*
- ENGL 321 - American Indian Literature *Units: 4 ; G.E./G.R. Area: C4*
- ENGL 322 - African-American Literature Before 1945 *Units: 4 ; G.E./G.R. Area: C4; Social*

Justice

- ENGL 323 - African-American Literature After 1945 *Units: 4 ; G.E./G.R. Area: C4; Diversity*
- ENGL 324 - American Women's Literature *Units: 4 ; G.E./G.R. Area: C4; Social Justice*
- ENGL 325 - Asian-American Literature *Units: 4 ; G.E./G.R. Area: C4; Diversity*
- ENGL 421 - 19th-Century American Literature *Units: 4*
- ENGL 422 - 20th- and 21st-Century American Literature *Units: 4*
- ENGL 423 - Ethnic American Women's Literature After 1900 *Units: 4*
- ENGL 424 - American Fiction Before 1900 *Units: 4*
- ENGL 425 - American Novel After 1900 *Units: 4*
- ENGL 444 - Short Story *Units: 4*
- ENGL 445 - Ethnic American Autobiography *Units: 4*

English: British Literature

- ENGL 309 - Major Works of British Literature *Units: 4*
- ENGL 332 - Chaucer *Units: 4*
- ENGL 411 - Shakespeare I *Units: 4 ; G.E./G.R. Area: C4*
- ENGL 412 - Shakespeare II *Units: 4 ; G.E./G.R. Area: C4*
- ENGL 413 - Milton *Units: 4*
- ENGL 414 - Restoration and 18th-Century British Literature *Units: 4*
- ENGL 415 - 19th-Century British Literature *Units: 4*
- ENGL 416 - British Novel before 1800 *Units: 4*
- ENGL 417 - British Novel 1800-1900 *Units: 4*
- ENGL 418 - British Novel After 1900 *Units: 4*
- ENGL 440 - English Drama to 1642 *Units: 4*

English: Education

- ENGL 398 - Internship *Units: 1-3*
- ENGL 460 - Seminar in English Education *Units: 4*

English: Film

- ENGL 240 - Introduction to American Film *Units: 4 ; G.E./G.R. Area: C2*
- ENGL 447 - Film Criticism *Units: 4*

English: Foundation

- ENGL 100 - College Writing: Stretch I *Units: 3*
- ENGL 101 - College Writing: Stretch II *Units: 3 ; G.E./G.R. Area: A2*
- ENGL 102 - Accelerated College Writing *Units: 3 ; G.E./G.R. Area: A2*
- ENGL 103 - College Writing: Stretch I (English for Speakers of Other Languages) *Units: 3*
- ENGL 104 - College Writing: Stretch II (English for Speakers of Other Languages) *Units: 3 ; G.E./G.R. Area: A2*
- ENGL 105 - College Reading for Fluency *Units: 3 ; G.E./G.R. Area: C2*
- ENGL 106 - Academic Vocabulary Development *Units: 3 ; G.E./G.R. Area: C1*
- ENGL 109 - College Writing Lab *Units: 1*
- ENGL 200 - College Writing II *Units: 3 ; G.E./G.R. Area: Writing II*
- ENGL 201 - College Writing II (English for Speakers of Other Languages) *Units: 3*

- ENGL 204 - Writing About Literature *Units: 4 ; G.E./G.R. Area: C2*
- ENGL 490 - Independent Study *Units: 1-4*

English: Global Literature

- ENGL 310 - Medieval Literature *Units: 4*
- ENGL 311 - Dante's Worlds *Units: 4*
- ENGL 327 - LGBT Literature and Queer Theory *Units: 4 ; G.E./G.R. Area: C4; Social Justice*
- ENGL 330 - Classical Literature *Units: 4*
- ENGL 331 - Global World Literature: Antiquity to the Early Modern World *Units: 4*
- ENGL 335 - Global Literature after 1900 *Units: 4*
- ENGL 341 - The Gothic *Units: 4*
- ENGL 342 - Environmental Literature *Units: 4 ; G.E./G.R. Area: C4; Sustainability*
- ENGL 343 - Detective Fiction *Units: 4*
- ENGL 345 - Comics and Graphic Novels *Units: 4 ; G.E./G.R. Area: C4*
- ENGL 430 - Bible as Literature *Units: 4*
- ENGL 431 - World Mythology *Units: 4*
- ENGL 434 - Global Short Story *Units: 4*
- ENGL 435 - Global Women's Literature *Units: 4*
- ENGL 436 - Contemporary Global Novel *Units: 4*
- ENGL 446 - Modern and Contemporary Poetry *Units: 4*
- ENGL 462 - Children's Literature before 1900 *Units: 4*
- ENGL 463 - Children's Literature after 1900 *Units: 4*

English: Graduate

- ENGL 600 - Introduction to Graduate Studies *Units: 4*
- ENGL 601 - The Literary Magazine *Units: 4*
- ENGL 602 - Graduate Workshop in Fiction *Units: 4*
- ENGL 603 - Graduate Workshop in Poetry *Units: 4*
- ENGL 610 - Medieval Literature *Units: 4*
- ENGL 611 - Renaissance Literature *Units: 4*
- ENGL 612 - Restoration and 18th-Century British Literature *Units: 4*
- ENGL 613 - 19th-Century British Literature *Units: 4*
- ENGL 614 - 20th Century British Literature *Units: 4*
- ENGL 620 - American Literature to 1900 *Units: 4*
- ENGL 621 - African-American Literature *Units: 4*
- ENGL 622 - 20th Century American Literature *Units: 4*
- ENGL 623 - Ethnic American Literature *Units: 4*
- ENGL 630 - Women's Literature *Units: 4*
- ENGL 631 - Post-Colonial Literature *Units: 4*
- ENGL 632 - Children's Literature *Units: 4*
- ENGL 633 - Environmental Literature *Units: 4*
- ENGL 640 - Studies in Literary Nonfiction *Units: 4*
- ENGL 641 - Studies in Poetry and Poetics *Units: 4*
- ENGL 651 - Theory and Practice of Teaching Oral Skills to Adults *Units: 4*
- ENGL 652 - Phonology, Morphology and Lexical Semantics *Units: 4*
- ENGL 653 - Theory and Practice of Teaching Reading to Adults *Units: 2*
- ENGL 654 - Supervised Tutoring and Teaching *Units: 2*
- ENGL 655 - Multilingualism and Second Language Acquisition *Units: 4*
- ENGL 656 - Pedagogical Grammar *Units: 4*
- ENGL 657 - Curriculum Design and Assessment in ESOL for Adult Learners *Units: 4*
- ENGL 660 - Introduction to Composition Studies Theory and Methods *Units: 4*

- ENGL 661 - Theory and Practice of Teaching Literature *Units: 4*
- ENGL 690 - Independent Study *Units: 1-4*
- ENGL 691 - University Thesis *Units: 4*
- ENGL 698 - Internship *Units: 1-3*
- ENGL 699 - Departmental Thesis *Units: 2-4*

English: Language/Grammar

- ENGL 350 - Study of Language *Units: 4*
- ENGL 351 - Modern English Grammar *Units: 4*
- ENGL 352 - Introduction to Phonology *Units: 4*
- ENGL 353 - Linguistic History of the English Language *Units: 4*
- ENGL 354 - Advanced Studies in English Vocabulary *Units: 4*
- ENGL 355 - Language and Gender *Units: 4*
- ENGL 450 - Current Theories in Formal Grammar *Units: 4*
- ENGL 451 - Language in the U.S.A. *Units: 4*
- ENGL 497 - Topics in the Study of the English Language *Units: 4*

English: Literary Theory

- ENGL 340 - Critical Theory of Literature *Units: 4*

English: Rhetoric and Composition

- ENGL 251 - Grammar for Writers *Units: 4*
- ENGL 252 - Vocabulary Building *Units: 4*
- ENGL 300 - Writing for Proficiency *Units: 3*
- ENGL 301 - Writing for Proficiency (English for Speakers of Other Languages) *Units: 3*
- ENGL 302 - Discursive Writing *Units: 3 ; GE/GR Area: UWSR*
- ENGL 303 - Advanced Expository Writing *Units: 4*
- ENGL 304 - Introduction to Technical and Professional Writing *Units: 4*
- ENGL 499 - Senior Seminar *Units: 4*

English: World Literature

- ENGL 312 - Renaissance Humanism *Units: 4*

English: Writing Workshop

- ENGL 205 - Beginning Workshop in Fiction *Units: 4 ; G.E./G.R. Area: C1*
- ENGL 206 - Beginning Workshop in Poetry *Units: 4 ; G.E./G.R. Area: C1*
- ENGL 305 - Intermediate Workshop in Fiction *Units: 4*
- ENGL 307 - Intermediate Workshop in Creative Nonfiction *Units: 4*
- ENGL 405 - Advanced Workshop in Fiction *Units: 4*
- ENGL 406 - Advanced Workshop in Poetry *Units: 4*

English Minor

Minor Requirements (24 units)

English Coursework

Students minoring in English must take 20 units of English courses. A maximum of 9 of these units may be in lower-division courses. The following courses are excluded and may not be used in the minor:

ENGL 100-level courses, ENGL 200, ENGL 201, ENGL 300, ENGL 301, ENGL 302.

Writing Coursework

Students minoring in English must take at least one (1) course in writing for 4 units from the list below:

- ENGL 204 - Writing About Literature *Units: 4 ; G.E./G.R. Area: C2*
- ENGL 205 - Beginning Workshop in Fiction *Units: 4 ; G.E./G.R. Area: C1*
- ENGL 206 - Beginning Workshop in Poetry *Units: 4 ; G.E./G.R. Area: C1*
- ENGL 303 - Advanced Expository Writing *Units: 4*
- ENGL 304 - Introduction to Technical and Professional Writing *Units: 4*
- ENGL 305 - Intermediate Workshop in Fiction *Units: 4*
- ENGL 307 - Intermediate Workshop in Creative Nonfiction *Units: 4*
- ENGL 405 - Advanced Workshop in Fiction *Units: 4*
- ENGL 406 - Advanced Workshop in Poetry *Units: 4*

Department Courses Listed by Course Type

English Courses

Department of English

Go to information for this department.

Courses

English: American/Global Literature

- ENGL 328 - Latina/o Literature *Units: 4 ; G.E./G.R. Area: C4*

English: American Literature

- ENGL 220 - Immigration and Migration in American Literature *Units: 4 ; G.E./G.R. Area: C2*
- ENGL 320 - Major Works of American Literature *Units: 4*
- ENGL 321 - American Indian Literature *Units: 4 ; G.E./G.R. Area: C4*
- ENGL 322 - African-American Literature Before 1945 *Units: 4 ; G.E./G.R. Area: C4; Social*

Justice

- ENGL 323 - African-American Literature After 1945 *Units: 4 ; G.E./G.R. Area: C4; Diversity*
- ENGL 324 - American Women's Literature *Units: 4 ; G.E./G.R. Area: C4; Social Justice*
- ENGL 325 - Asian-American Literature *Units: 4 ; G.E./G.R. Area: C4; Diversity*
- ENGL 421 - 19th-Century American Literature *Units: 4*
- ENGL 422 - 20th- and 21st-Century American Literature *Units: 4*
- ENGL 423 - Ethnic American Women's Literature After 1900 *Units: 4*
- ENGL 424 - American Fiction Before 1900 *Units: 4*
- ENGL 425 - American Novel After 1900 *Units: 4*
- ENGL 444 - Short Story *Units: 4*
- ENGL 445 - Ethnic American Autobiography *Units: 4*

English: British Literature

- ENGL 309 - Major Works of British Literature *Units: 4*
- ENGL 332 - Chaucer *Units: 4*

- ENGL 411 - Shakespeare I *Units: 4 ; G.E./G.R. Area: C4*
- ENGL 412 - Shakespeare II *Units: 4 ; G.E./G.R. Area: C4*
- ENGL 413 - Milton *Units: 4*
- ENGL 414 - Restoration and 18th-Century British Literature *Units: 4*
- ENGL 415 - 19th-Century British Literature *Units: 4*
- ENGL 416 - British Novel before 1800 *Units: 4*
- ENGL 417 - British Novel 1800-1900 *Units: 4*
- ENGL 418 - British Novel After 1900 *Units: 4*
- ENGL 440 - English Drama to 1642 *Units: 4*

English: Education

- ENGL 398 - Internship *Units: 1-3*
- ENGL 460 - Seminar in English Education *Units: 4*

English: Film

- ENGL 240 - Introduction to American Film *Units: 4 ; G.E./G.R. Area: C2*
- ENGL 447 - Film Criticism *Units: 4*

English: Foundation

- ENGL 100 - College Writing: Stretch I *Units: 3*
- ENGL 101 - College Writing: Stretch II *Units: 3 ; G.E./G.R. Area: A2*
- ENGL 102 - Accelerated College Writing *Units: 3 ; G.E./G.R. Area: A2*
- ENGL 103 - College Writing: Stretch I (English for Speakers of Other Languages) *Units: 3*
- ENGL 104 - College Writing: Stretch II (English for Speakers of Other Languages) *Units: 3 ; G.E./G.R. Area: A2*

- ENGL 105 - College Reading for Fluency *Units: 3 ; G.E./G.R. Area: C2*
- ENGL 106 - Academic Vocabulary Development *Units: 3 ; G.E./G.R. Area: C1*
- ENGL 109 - College Writing Lab *Units: 1*
- ENGL 200 - College Writing II *Units: 3 ; G.E./G.R. Area: Writing II*
- ENGL 201 - College Writing II (English for Speakers of Other Languages) *Units: 3*
- ENGL 204 - Writing About Literature *Units: 4 ; G.E./G.R. Area: C2*
- ENGL 490 - Independent Study *Units: 1-4*

English: Global Literature

- ENGL 310 - Medieval Literature *Units: 4*
- ENGL 311 - Dante's Worlds *Units: 4*
- ENGL 327 - LGBT Literature and Queer Theory *Units: 4 ; G.E./G.R. Area: C4; Social Justice*
- ENGL 330 - Classical Literature *Units: 4*
- ENGL 331 - Global World Literature: Antiquity to the Early Modern World *Units: 4*
- ENGL 335 - Global Literature after 1900 *Units: 4*
- ENGL 341 - The Gothic *Units: 4*
- ENGL 342 - Environmental Literature *Units: 4 ; G.E./G.R. Area: C4; Sustainability*
- ENGL 343 - Detective Fiction *Units: 4*
- ENGL 345 - Comics and Graphic Novels *Units: 4 ; G.E./G.R. Area: C4*
- ENGL 430 - Bible as Literature *Units: 4*
- ENGL 431 - World Mythology *Units: 4*
- ENGL 434 - Global Short Story *Units: 4*
- ENGL 435 - Global Women's Literature *Units: 4*
- ENGL 436 - Contemporary Global Novel *Units: 4*
- ENGL 446 - Modern and Contemporary Poetry *Units: 4*
- ENGL 462 - Children's Literature before 1900 *Units: 4*
- ENGL 463 - Children's Literature after 1900 *Units: 4*

English: Graduate

- ENGL 600 - Introduction to Graduate Studies *Units: 4*
- ENGL 601 - The Literary Magazine *Units: 4*
- ENGL 602 - Graduate Workshop in Fiction *Units: 4*
- ENGL 603 - Graduate Workshop in Poetry *Units: 4*
- ENGL 610 - Medieval Literature *Units: 4*
- ENGL 611 - Renaissance Literature *Units: 4*
- ENGL 612 - Restoration and 18th-Century British Literature *Units: 4*
- ENGL 613 - 19th-Century British Literature *Units: 4*
- ENGL 614 - 20th Century British Literature *Units: 4*
- ENGL 620 - American Literature to 1900 *Units: 4*
- ENGL 621 - African-American Literature *Units: 4*
- ENGL 622 - 20th Century American Literature *Units: 4*
- ENGL 623 - Ethnic American Literature *Units: 4*
- ENGL 630 - Women's Literature *Units: 4*
- ENGL 631 - Post-Colonial Literature *Units: 4*
- ENGL 632 - Children's Literature *Units: 4*
- ENGL 633 - Environmental Literature *Units: 4*
- ENGL 640 - Studies in Literary Nonfiction *Units: 4*
- ENGL 641 - Studies in Poetry and Poetics *Units: 4*
- ENGL 651 - Theory and Practice of Teaching Oral Skills to Adults *Units: 4*
- ENGL 652 - Phonology, Morphology and Lexical Semantics *Units: 4*
- ENGL 653 - Theory and Practice of Teaching Reading to Adults *Units: 2*
- ENGL 654 - Supervised Tutoring and Teaching *Units: 2*
- ENGL 655 - Multilingualism and Second Language Acquisition *Units: 4*
- ENGL 656 - Pedagogical Grammar *Units: 4*
- ENGL 657 - Curriculum Design and Assessment in ESOL for Adult Learners *Units: 4*
- ENGL 660 - Introduction to Composition Studies Theory and Methods *Units: 4*
- ENGL 661 - Theory and Practice of Teaching Literature *Units: 4*
- ENGL 690 - Independent Study *Units: 1-4*
- ENGL 691 - University Thesis *Units: 4*
- ENGL 698 - Internship *Units: 1-3*
- ENGL 699 - Departmental Thesis *Units: 2-4*

English: Language/Grammar

- ENGL 350 - Study of Language *Units: 4*
- ENGL 351 - Modern English Grammar *Units: 4*
- ENGL 352 - Introduction to Phonology *Units: 4*
- ENGL 353 - Linguistic History of the English Language *Units: 4*
- ENGL 354 - Advanced Studies in English Vocabulary *Units: 4*
- ENGL 355 - Language and Gender *Units: 4*
- ENGL 450 - Current Theories in Formal Grammar *Units: 4*
- ENGL 451 - Language in the U.S.A. *Units: 4*
- ENGL 497 - Topics in the Study of the English Language *Units: 4*

English: Literary Theory

- ENGL 340 - Critical Theory of Literature *Units: 4*

English: Rhetoric and Composition

- ENGL 251 - Grammar for Writers *Units: 4*
- ENGL 252 - Vocabulary Building *Units: 4*

- ENGL 300 - Writing for Proficiency *Units: 3*
- ENGL 301 - Writing for Proficiency (English for Speakers of Other Languages) *Units: 3*
- ENGL 302 - Discursive Writing *Units: 3 ; GE/GR Area: UWSR*
- ENGL 303 - Advanced Expository Writing *Units: 4*
- ENGL 304 - Introduction to Technical and Professional Writing *Units: 4*
- ENGL 499 - Senior Seminar *Units: 4*

English: World Literature

- ENGL 312 - Renaissance Humanism *Units: 4*

English: Writing Workshop

- ENGL 205 - Beginning Workshop in Fiction *Units: 4 ; G.E./G.R. Area: C1*
- ENGL 206 - Beginning Workshop in Poetry *Units: 4 ; G.E./G.R. Area: C1*
- ENGL 305 - Intermediate Workshop in Fiction *Units: 4*
- ENGL 307 - Intermediate Workshop in Creative Nonfiction *Units: 4*
- ENGL 405 - Advanced Workshop in Fiction *Units: 4*
- ENGL 406 - Advanced Workshop in Poetry *Units: 4*

Department of Ethnic Studies

The Department Office location is on the 4th Floor of the Meiklejohn Hall building, Room 4094

Office Hours: 9:00 a.m. - 6:30 p.m. M & Th, T & W 8:00 a.m.-5:00 p.m., Closed Fridays

Dept Phone: (510) 885-3255

Faculty

Professors

Nicholas Baham, III, Ph.D. Indiana University, Bloomington

Luz Calvo, Ph.D. University of California, Santa Cruz

Enrique Salmon, Ph.D. Arizona State University

Carlos Salomon (Chair), Ph.D. University of New Mexico

Assistant Professor

Anndretta Wilson, Ph.D. University of California, Los Angeles

Director: Carlos Salomon

Mission Statement

The mission of the Department of Ethnic Studies is to provide an academically rigorous program that substantively contributes to the University's public commitment to provide a multicultural learning

experience. Our comparative and interdisciplinary program covers five core areas: African American Studies; American Indian Studies; Asian American Studies; Latino/a and Latin American Studies; and Gender/Sexualities in Communities of Color. In our courses, we teach students to analyze social relations of race, class, gender, and sexuality; develop nuanced understandings of social justice; and act as socially responsible global citizens.

About the Department

Use our university website link to learn more about what the Ethnic Studies Department has to offer.

- Scholarships
- Roadmaps
- Advising
- Department News
- And more...

Bachelor

Ethnic Studies, B.A.: American Indian Studies Concentration

Ethnic Studies, B.A. Program (120 units)

Program Description

Ethnic Studies offers an interdisciplinary major, providing a comparative approach to the study of people of color in the United States. Our Ethnic Studies curriculum has a strong social justice focus. Through a systematic study of the cultures, histories, and social realities of communities of color in the US, our students finish our program prepared to work effectively in multiracial, multiethnic, multigender communities.

The Ethnic Studies major consists of 36 units. Our major provides students with considerable flexibility, allowing them to specialize in one group, while also gaining in-depth knowledge and expertise in the range of histories, cultures, and social realities of communities of color. Students work closely with their academic advisor to put together a program that suits their goals and interests. Students take 18 units of core curriculum, 12 units in their concentration, and 6 units in elective courses in Ethnic Studies. Students choose from the following five areas of concentration: American Indian Studies, Asian American Studies, Black Studies, Genders and Sexualities in Communities of Color, and Latinx/Chicanx Studies.

Career Opportunities

College Faculty, Staff, or Administrator • Community Liaison or Organizer • Diversity Specialist • Government Service • Immigration Policy Advocate • Non-Profit Management • Prison Abolitionist • Public Relations • Social Work/Therapist • Teacher/Counselor • Tribal Government • Union Organizer • Urban Planning and Affordable Housing • Youth Advocate

Program Learning Outcomes

Students graduating with a B.A. in Ethnic Studies from Cal State East Bay will be able to:

- Apply Ethnic Studies frameworks and key concepts to promote equity and social justice in our communities.
- Explain discipline-specific theoretical frameworks including critical race theory, intersectionality, women of color feminisms, and/or queer of color theories
- Recognize the complexity, heterogeneity and power dynamics between and within racialized groups in the US.
- Research and write effectively, in individual or collaborative contexts, on issues, ideas, perspectives, and values that affect people of color in the United States;
- Explain the concepts of colonialism, decolonization, genocide, environmental racism, and/or resilience as foundations of indigenous epistemologies and sovereignty.

Degree Requirements Unit-Outline

A baccalaureate of arts degree requires a total of 120 units:

The major requirements consists of 36 units;

General Education (GE) & Graduation Requirements (GR) consists of 57 units;

Free Electives may consist of 27 units (*actual number of free elective units may depend on GE/GR units*).

Note: It may be possible to double-count units within the graduation requirements or that a course may satisfy both a graduation requirement and a major requirement. Students should contact their program and AACE advisors for information.

Ethnic Studies Major Requirements (36 units)

Core Coursework

The following 18 units of lower- and upper-division core coursework are required:

- ES 100 - Introduction to Social Justice in Communities of Color *Units: 3 ; G.E./G.R. Area: D1-3; Social Justice*
- ES 200 - Race and Resistance *Units: 3 ; G.E./G.R. Area: C1; Diversity*
- ES 300 - Writing for Social Justice *Units: 3 ; G.E./G.R. Area: UWSR; Social Justice*
- ES 301 - Black Feminisms *Units: 3 ; G.E./G.R. Area: D4; Diversity*
- ES 302 - Eating The Landscape *Units: 3 ; G.E./G.R. Area: C4; Sustainability*
- ES 389 - Engaging Communities of Color *Units: 3*

Elective Courses

Students must take an additional 6 units of electives in Ethnic Studies NOT in their area of concentration.

Concentrations

Students must choose one (1) concentration for 12 units below as part of the major requirements:

- Ethnic Studies, B.A.: American Indian Studies Concentration
- Ethnic Studies, B.A.: Asian American Studies Concentration

- Ethnic Studies, B.A.: Black Studies Concentration
- Ethnic Studies, B.A.: Chicana and Latina Studies Concentration
- Ethnic Studies, B.A.: Comparative Ethnic Studies Concentration (Available Online)
- Ethnic Studies, B.A.: Genders and Sexualities in Communities of Color Concentration (Available Online)

American Indian Studies Concentration

Students with a concentration in American Indian Studies will take 12 units of coursework that focus on American Indians. Choose four (4) courses from the following:

- ES 303 - Debates in Contemporary Native America Units: 3 ; G.E./G.R. Area: C4; Diversity
- ES 304 - American Indian Oral Literature Units: 3 ; G.E./G.R. Area: C4; Diversity
- ES 305 - Reel Injun: American Indians in Film Units: 3 ; G.E./G.R. Area: D4; Social Justice
- ES 306 - American Indian Liberation Units: 3 ; G.E./G.R. Area: D4; Social Justice
- ES 307 - God is Red: American Indian Worldview Units: 3 ; G.E./G.R. Area: C4; Sustainability
- ES 308 - Cultures of Habitat Units: 3 ; G.E./G.R. Area: B6; Sustainability
- ES 327 - Decolonize Your Diet Units: 3 ; G.E./G.R. Area: D4; Sustainability

Other Undergraduate Degree Requirements

In addition to major requirements, every student must also complete the University's baccalaureate requirements for graduation, which are described in the Requirements, Exams & Testing chapter of this catalog.

Department Courses Listed by Course Type

Ethnic Studies Courses

Department of Ethnic Studies

Go to information for this department.

Courses

Ethnic Studies

- ES 100 - Introduction to Social Justice in Communities of Color Units: 3 ; G.E./G.R. Area: D1-3; Social Justice
- ES 120 - The People's History I Units: 3 ; G.E./G.R. Area: US-1, US-2, US-3; Social Justice
- ES 121 - The People's History II Units: 3 ; G.E./G.R. Area: US-1, US-2, US-3; Social Justice
- ES 200 - Race and Resistance Units: 3 ; G.E./G.R. Area: C1; Diversity
- ES 244 - Mixed Race Identities in the US Units: 3 ; G.E./G.R. Area: D1-3; Diversity
- ES 247 - Hip Hop Nation Units: 3 ; G.E./G.R. Area: C1; Social Justice
- ES 300 - Writing for Social Justice Units: 3 ; G.E./G.R. Area: UWSR; Social Justice

- ES 302 - Eating The Landscape *Units: 3 ; G.E./G.R. Area: C4; Sustainability*
- ES 308 - Cultures of Habitat *Units: 3 ; G.E./G.R. Area: B6; Sustainability*
- ES 322 - Oral Traditions *Units: 3 ; G.E./G.R. Area: C4; Diversity*
- ES 326 - Peoples of Central America *Units: 3 ; G.E./G.R. Area: D4; Social Justice*
- ES 389 - Engaging Communities of Color *Units: 3*
- ES 398 - Internship *Units: 1-3*
- ES 490 - Independent Study *Units: 1-4*
- ES 497 - Issues in Ethnic Studies *Units: 3*

Ethnic Studies: African American Studies

- ES 245 - Black Flix *Units: 3 ; G.E./G.R. Area: C1; Diversity*
- ES 301 - Black Feminisms *Units: 3 ; G.E./G.R. Area: D4; Diversity*
- ES 340 - Black Literature *Units: 3 ; G.E./G.R. Area: C4; Diversity*
- ES 341 - Enslavement and Resistance in the Americas *Units: 3 ; G.E./G.R. Area: D4; Diversity*
- ES 342 - James Baldwin *Units: 3 ; G.E./G.R. Area: C4; Social Justice*
- ES 343 - Black Power *Units: 3 ; G.E./G.R. Area: D4; Social Justice*
- ES 344 - Malcolm X: Third World Revolutionary *Units: 3 ; G.E./G.R. Area: D4; Social Justice*
- ES 345 - Jazz Cultures and Communities *Units: 3 ; G.E./G.R. Area: C4; Diversity*
- ES 346 - Afrofuturism *Units: 3 ; G.E./G.R. Area: C4; Diversity*
- ES 347 - Black Sexualities *Units: 3 ; G.E./G.R. Area: D4; Diversity*

Ethnic Studies: American Indian Studies

- ES 303 - Debates in Contemporary Native America *Units: 3 ; G.E./G.R. Area: C4; Diversity*
- ES 304 - American Indian Oral Literature *Units: 3 ; G.E./G.R. Area: C4; Diversity*
- ES 305 - Reel Injun: American Indians in Film *Units: 3 ; G.E./G.R. Area: D4; Social Justice*
- ES 306 - American Indian Liberation *Units: 3 ; G.E./G.R. Area: D4; Social Justice*
- ES 307 - God is Red: American Indian Worldview *Units: 3 ; G.E./G.R. Area: C4; Sustainability*

Ethnic Studies: Asian American Studies

- ES 360 - Asian American Intimacies and Families *Units: 3 ; G.E./G.R. Area: D4; Diversity*
- ES 361 - Asian Immigrant and Refugee Women in Literature and Cinema *Units: 3 ; G.E./G.R. Area: C4; Social Justice*
- ES 362 - Concentration Camps, USA *Units: 3 ; G.E./G.R. Area: D4; Social Justice*
- ES 363 - Asian American & Pacific Islander Film Festival *Units: 3 ; G.E./G.R. Area: C4; Diversity*
- ES 364 - Asian American & Pacific Islander Communities *Units: 3 ; G.E./G.R. Area: D4; Diversity*
- ES 365 - Asian American and Pacific Islander Environmental Voices *Units: 3 ; G.E./G.R. Area: C4; Social Justice*

Ethnic Studies: Genders and Sexualities in Communities of Color

- ES 380 - Queer of Color Histories, Cultures, and Identities *Units: 3 ; G.E./G.R. Area: C4; Social Justice*
- ES 381 - Racialized Masculinities *Units: 3 ; G.E./G.R. Area: D4; Diversity*
- ES 382 - Women of Color Writers: Race, Sex, and Resistance *Units: 3 ; G.E./G.R. Area: C4; Diversity*
- ES 384 - Interracial Sex and Marriage *Units: 3 ; G.E./G.R. Area: C4; Social Justice*

Ethnic Studies: Latino/a Studies

- ES 320 - The Chicano/a Movement *Units: 3 ; G.E./G.R. Area: D4*
- ES 321 - Latinas in the US *Units: 3 ; G.E./G.R. Area: C4; Diversity*
- ES 323 - Latinx and Latin American Film *Units: 3 ; G.E./G.R. Area: C4; Social Justice*
- ES 324 - Latin American Immigration *Units: 3 ; G.E./G.R. Area: C4; Diversity*

- ES 325 - Cultural Production in Mexico and Mesoamerica *Units: 3 ; G.E./G.R. Area: C4; Social Justice*
- ES 327 - Decolonize Your Diet *Units: 3 ; G.E./G.R. Area: D4; Sustainability*

Ethnic Studies, B.A.: Asian American Studies Concentration

Ethnic Studies, B.A. Program (120 units)

Program Description

Ethnic Studies offers an interdisciplinary major, providing a comparative approach to the study of people of color in the United States. Our Ethnic Studies curriculum has a strong social justice focus. Through a systematic study of the cultures, histories, and social realities of communities of color in the US, our students finish our program prepared to work effectively in multiracial, multiethnic, multigender communities.

The Ethnic Studies major consists of 36 units. Our major provides students with considerable flexibility, allowing them to specialize in one group, while also gaining in-depth knowledge and expertise in the range of histories, cultures, and social realities of communities of color. Students work closely with their academic advisor to put together a program that suits their goals and interests. Students take 18 units of core curriculum, 12 units in their concentration, and 6 units in elective courses in Ethnic Studies. Students choose from the following five areas of concentration: American Indian Studies, Asian American Studies, Black Studies, Genders and Sexualities in Communities of Color, and Latinx/Chicanx Studies.

Career Opportunities

College Faculty, Staff, or Administrator • Community Liaison or Organizer • Diversity Specialist • Government Service • Immigration Policy Advocate • Non-Profit Management • Prison Abolitionist • Public Relations • Social Work/Therapist • Teacher/Counselor • Tribal Government • Union Organizer • Urban Planning and Affordable Housing • Youth Advocate

Program Learning Outcomes

Students graduating with a B.A. in Ethnic Studies from Cal State East Bay will be able to:

- Apply Ethnic Studies frameworks and key concepts to promote equity and social justice in our communities.
- Explain discipline-specific theoretical frameworks including critical race theory, intersectionality, women of color feminisms, and/or queer of color theories
- Recognize the complexity, heterogeneity and power dynamics between and within racialized groups in the US.
- Research and write effectively, in individual or collaborative contexts, on issues, ideas, perspectives, and values that affect people of color in the United States;
- Explain the concepts of colonialism, decolonization, genocide, environmental racism, and/or resilience as foundations of indigenous epistemologies and sovereignty.

Degree Requirements Unit-Outline

A baccalaureate of arts degree requires a total of 120 units:

The major requirements consists of 36 units;

General Education (GE) & Graduation Requirements (GR) consists of 57 units;

Free Electives may consist of 27 units (*actual number of free elective units may depend on GE/GR units*).

Note: It may be possible to double-count units within the graduation requirements or that a course may satisfy both a graduation requirement and a major requirement. Students should contact their program and AACE advisors for information.

Ethnic Studies Major Requirements (36 units)

Core Coursework

The following 18 units of lower- and upper-division core coursework are required:

- **ES 100 - Introduction to Social Justice in Communities of Color** *Units: 3 ; G.E./G.R. Area: D1-3; Social Justice*
- **ES 200 - Race and Resistance** *Units: 3 ; G.E./G.R. Area: C1; Diversity*
- **ES 300 - Writing for Social Justice** *Units: 3 ; G.E./G.R. Area: UWSR; Social Justice*
- **ES 301 - Black Feminisms** *Units: 3 ; G.E./G.R. Area: D4; Diversity*
- **ES 302 - Eating The Landscape** *Units: 3 ; G.E./G.R. Area: C4; Sustainability*
- **ES 389 - Engaging Communities of Color** *Units: 3*

Elective Courses

Students must take an additional 6 units of electives in Ethnic Studies NOT in their area of concentration.

Concentrations

Students must choose one (1) concentration for 12 units below as part of the major requirements:

- Ethnic Studies, B.A.: American Indian Studies Concentration
- Ethnic Studies, B.A.: Asian American Studies Concentration
- Ethnic Studies, B.A.: Black Studies Concentration
- Ethnic Studies, B.A.: Chicax and Latinx Studies Concentration
- Ethnic Studies, B.A.: Comparative Ethnic Studies Concentration (Available Online)
- Ethnic Studies, B.A.: Genders and Sexualities in Communities of Color Concentration (Available Online)

Asian American Studies Concentration

Students with a concentration in Asian American Studies will take 12 units of coursework that focus on Asian Americans. Choose four (4) courses from the following:

- **ES 360 - Asian American Intimacies and Families** *Units: 3 ; G.E./G.R. Area: D4; Diversity*

- **ES 361 - Asian Immigrant and Refugee Women in Literature and Cinema** *Units: 3 ; G.E./G.R. Area: C4; Social Justice*
- **ES 362 - Concentration Camps, USA** *Units: 3 ; G.E./G.R. Area: D4; Social Justice*
- **ES 363 - Asian American & Pacific Islander Film Festival** *Units: 3 ; G.E./G.R. Area: C4; Diversity*
- **ES 364 - Asian American & Pacific Islander Communities** *Units: 3 ; G.E./G.R. Area: D4; Diversity*
- **ES 365 - Asian American and Pacific Islander Environmental Voices** *Units: 3 ; G.E./G.R. Area: C4; Social Justice*

Other Undergraduate Degree Requirements

In addition to major requirements, every student must also complete the University's baccalaureate requirements for graduation, which are described in the Requirements, Exams & Testing chapter of this catalog.

Department Courses Listed by Course Type

Ethnic Studies Courses

Department of Ethnic Studies

Go to information for this department.

Courses

Ethnic Studies

- **ES 100 - Introduction to Social Justice in Communities of Color** *Units: 3 ; G.E./G.R. Area: D1-3; Social Justice*
- **ES 120 - The People's History I** *Units: 3 ; G.E./G.R. Area: US-1, US-2, US-3; Social Justice*
- **ES 121 - The People's History II** *Units: 3 ; G.E./G.R. Area: US-1, US-2, US-3; Social Justice*
- **ES 200 - Race and Resistance** *Units: 3 ; G.E./G.R. Area: C1; Diversity*
- **ES 244 - Mixed Race Identities in the US** *Units: 3 ; G.E./G.R. Area: D1-3; Diversity*
- **ES 247 - Hip Hop Nation** *Units: 3 ; G.E./G.R. Area: C1; Social Justice*
- **ES 300 - Writing for Social Justice** *Units: 3 ; G.E./G.R. Area: UWSR; Social Justice*
- **ES 302 - Eating The Landscape** *Units: 3 ; G.E./G.R. Area: C4; Sustainability*
- **ES 308 - Cultures of Habitat** *Units: 3 ; G.E./G.R. Area: B6; Sustainability*
- **ES 322 - Oral Traditions** *Units: 3 ; G.E./G.R. Area: C4; Diversity*
- **ES 326 - Peoples of Central America** *Units: 3 ; G.E./G.R. Area: D4; Social Justice*
- **ES 389 - Engaging Communities of Color** *Units: 3*
- **ES 398 - Internship** *Units: 1-3*
- **ES 490 - Independent Study** *Units: 1-4*
- **ES 497 - Issues in Ethnic Studies** *Units: 3*

Ethnic Studies: African American Studies

- **ES 245 - Black Flix** *Units: 3 ; G.E./G.R. Area: C1; Diversity*
- **ES 301 - Black Feminisms** *Units: 3 ; G.E./G.R. Area: D4; Diversity*
- **ES 340 - Black Literature** *Units: 3 ; G.E./G.R. Area: C4; Diversity*

- ES 341 - Enslavement and Resistance in the Americas *Units: 3 ; G.E./G.R. Area: D4; Diversity*
- ES 342 - James Baldwin *Units: 3 ; G.E./G.R. Area: C4; Social Justice*
- ES 343 - Black Power *Units: 3 ; G.E./G.R. Area: D4; Social Justice*
- ES 344 - Malcolm X: Third World Revolutionary *Units: 3 ; G.E./G.R. Area: D4; Social Justice*
- ES 345 - Jazz Cultures and Communities *Units: 3 ; G.E./G.R. Area: C4; Diversity*
- ES 346 - Afrofuturism *Units: 3 ; G.E./G.R. Area: C4; Diversity*
- ES 347 - Black Sexualities *Units: 3 ; G.E./G.R. Area: D4; Diversity*

Ethnic Studies: American Indian Studies

- ES 303 - Debates in Contemporary Native America *Units: 3 ; G.E./G.R. Area: C4; Diversity*
- ES 304 - American Indian Oral Literature *Units: 3 ; G.E./G.R. Area: C4; Diversity*
- ES 305 - Reel Injun: American Indians in Film *Units: 3 ; G.E./G.R. Area: D4; Social Justice*
- ES 306 - American Indian Liberation *Units: 3 ; G.E./G.R. Area: D4; Social Justice*
- ES 307 - God is Red: American Indian Worldview *Units: 3 ; G.E./G.R. Area: C4; Sustainability*

Ethnic Studies: Asian American Studies

- ES 360 - Asian American Intimacies and Families *Units: 3 ; G.E./G.R. Area: D4; Diversity*
- ES 361 - Asian Immigrant and Refugee Women in Literature and Cinema *Units: 3 ; G.E./G.R. Area: C4; Social Justice*
- ES 362 - Concentration Camps, USA *Units: 3 ; G.E./G.R. Area: D4; Social Justice*
- ES 363 - Asian American & Pacific Islander Film Festival *Units: 3 ; G.E./G.R. Area: C4; Diversity*
- ES 364 - Asian American & Pacific Islander Communities *Units: 3 ; G.E./G.R. Area: D4; Diversity*
- ES 365 - Asian American and Pacific Islander Environmental Voices *Units: 3 ; G.E./G.R. Area: C4; Social Justice*

Ethnic Studies: Genders and Sexualities in Communities of Color

- ES 380 - Queer of Color Histories, Cultures, and Identities *Units: 3 ; G.E./G.R. Area: C4; Social Justice*
- ES 381 - Racialized Masculinities *Units: 3 ; G.E./G.R. Area: D4; Diversity*
- ES 382 - Women of Color Writers: Race, Sex, and Resistance *Units: 3 ; G.E./G.R. Area: C4; Diversity*
- ES 384 - Interracial Sex and Marriage *Units: 3 ; G.E./G.R. Area: C4; Social Justice*

Ethnic Studies: Latino/a Studies

- ES 320 - The Chicano/a Movement *Units: 3 ; G.E./G.R. Area: D4*
- ES 321 - Latinas in the US *Units: 3 ; G.E./G.R. Area: C4; Diversity*
- ES 323 - Latinx and Latin American Film *Units: 3 ; G.E./G.R. Area: C4; Social Justice*
- ES 324 - Latin American Immigration *Units: 3 ; G.E./G.R. Area: C4; Diversity*
- ES 325 - Cultural Production in Mexico and Mesoamerica *Units: 3 ; G.E./G.R. Area: C4; Social Justice*
- ES 327 - Decolonize Your Diet *Units: 3 ; G.E./G.R. Area: D4; Sustainability*

Ethnic Studies, B.A.: Black Studies Concentration

Ethnic Studies, B.A. Program (120 units)

Program Description

Ethnic Studies offers an interdisciplinary major, providing a comparative approach to the study of people of color in the United States. Our Ethnic Studies curriculum has a strong social justice focus. Through a

systematic study of the cultures, histories, and social realities of communities of color in the US, our students finish our program prepared to work effectively in multiracial, multiethnic, multigender communities.

The Ethnic Studies major consists of 36 units. Our major provides students with considerable flexibility, allowing them to specialize in one group, while also gaining in-depth knowledge and expertise in the range of histories, cultures, and social realities of communities of color. Students work closely with their academic advisor to put together a program that suits their goals and interests. Students take 18 units of core curriculum, 12 units in their concentration, and 6 units in elective courses in Ethnic Studies. Students choose from the following five areas of concentration: American Indian Studies, Asian American Studies, Black Studies, Genders and Sexualities in Communities of Color, and Latinx/Chicanx Studies.

Career Opportunities

College Faculty, Staff, or Administrator • Community Liaison or Organizer • Diversity Specialist • Government Service • Immigration Policy Advocate • Non-Profit Management • Prison Abolitionist • Public Relations • Social Work/Therapist • Teacher/Counselor • Tribal Government • Union Organizer • Urban Planning and Affordable Housing • Youth Advocate

Program Learning Outcomes

Students graduating with a B.A. in Ethnic Studies from Cal State East Bay will be able to:

- Apply Ethnic Studies frameworks and key concepts to promote equity and social justice in our communities.
- Explain discipline-specific theoretical frameworks including critical race theory, intersectionality, women of color feminisms, and/or queer of color theories
- Recognize the complexity, heterogeneity and power dynamics between and within racialized groups in the US.
- Research and write effectively, in individual or collaborative contexts, on issues, ideas, perspectives, and values that affect people of color in the United States;
- Explain the concepts of colonialism, decolonization, genocide, environmental racism, and/or resilience as foundations of indigenous epistemologies and sovereignty.

Degree Requirements Unit-Outline

A baccalaureate of arts degree requires a total of 120 units:

The major requirements consists of 36 units;

General Education (GE) & Graduation Requirements (GR) consists of 57 units;

Free Electives may consist of 27 units (*actual number of free elective units may depend on GE/GR units*).

Note: It may be possible to double-count units within the graduation requirements or that a course may satisfy both a graduation requirement and a major requirement. Students should contact their program and AACE advisors for information.

Ethnic Studies Major Requirements (36 units)

Core Coursework

The following 18 units of lower- and upper-division core coursework are required:

- **ES 100 - Introduction to Social Justice in Communities of Color** *Units: 3 ; G.E./G.R. Area: D1-3; Social Justice*
- **ES 200 - Race and Resistance** *Units: 3 ; G.E./G.R. Area: C1; Diversity*
- **ES 300 - Writing for Social Justice** *Units: 3 ; G.E./G.R. Area: UWSR; Social Justice*
- **ES 301 - Black Feminisms** *Units: 3 ; G.E./G.R. Area: D4; Diversity*
- **ES 302 - Eating The Landscape** *Units: 3 ; G.E./G.R. Area: C4; Sustainability*
- **ES 389 - Engaging Communities of Color** *Units: 3*

Elective Courses

Students must take an additional 6 units of electives in Ethnic Studies NOT in their area of concentration.

Concentrations

Students must choose one (1) concentration for 12 units below as part of the major requirements:

- Ethnic Studies, B.A.: American Indian Studies Concentration
- Ethnic Studies, B.A.: Asian American Studies Concentration
- Ethnic Studies, B.A.: Black Studies Concentration
- Ethnic Studies, B.A.: Chicanx and Latinx Studies Concentration
- Ethnic Studies, B.A.: Comparative Ethnic Studies Concentration (Available Online)
- Ethnic Studies, B.A.: Genders and Sexualities in Communities of Color Concentration (Available Online)

Black Studies Concentration

Students with a concentration in Black Studies will take 12 units of coursework that focus on Blacks in the US. Choose four (4) courses from the following:

- **ES 245 - Black Flix** *Units: 3 ; G.E./G.R. Area: C1; Diversity*
- **ES 247 - Hip Hop Nation** *Units: 3 ; G.E./G.R. Area: C1; Social Justice*
- **ES 340 - Black Literature** *Units: 3 ; G.E./G.R. Area: C4; Diversity*
- **ES 341 - Enslavement and Resistance in the Americas** *Units: 3 ; G.E./G.R. Area: D4; Diversity*
- **ES 342 - James Baldwin** *Units: 3 ; G.E./G.R. Area: C4; Social Justice*
- **ES 343 - Black Power** *Units: 3 ; G.E./G.R. Area: D4; Social Justice*
- **ES 344 - Malcolm X: Third World Revolutionary** *Units: 3 ; G.E./G.R. Area: D4; Social Justice*
- **ES 345 - Jazz Cultures and Communities** *Units: 3 ; G.E./G.R. Area: C4; Diversity*
- **ES 346 - Afrofuturism** *Units: 3 ; G.E./G.R. Area: C4; Diversity*
- **ES 347 - Black Sexualities** *Units: 3 ; G.E./G.R. Area: D4; Diversity*

Other Undergraduate Degree Requirements

In addition to major requirements, every student must also complete the University's baccalaureate requirements for graduation, which are described in the Requirements, Exams & Testing chapter of this catalog.

Department Courses Listed by Course Type

Ethnic Studies Courses

Department of Ethnic Studies

Go to information for this department.

Courses

Ethnic Studies

- • ES 100 - Introduction to Social Justice in Communities of Color *Units: 3 ; G.E./G.R. Area: D1-3; Social Justice*
- • ES 120 - The People's History I *Units: 3 ; G.E./G.R. Area: US-1, US-2, US-3; Social Justice*
- • ES 121 - The People's History II *Units: 3 ; G.E./G.R. Area: US-1, US-2, US-3; Social Justice*
- • ES 200 - Race and Resistance *Units: 3 ; G.E./G.R. Area: C1; Diversity*
- • ES 244 - Mixed Race Identities in the US *Units: 3 ; G.E./G.R. Area: D1-3; Diversity*
- • ES 247 - Hip Hop Nation *Units: 3 ; G.E./G.R. Area: C1; Social Justice*
- • ES 300 - Writing for Social Justice *Units: 3 ; G.E./G.R. Area: UWSR; Social Justice*
- • ES 302 - Eating The Landscape *Units: 3 ; G.E./G.R. Area: C4; Sustainability*
- • ES 308 - Cultures of Habitat *Units: 3 ; G.E./G.R. Area: B6; Sustainability*
- • ES 322 - Oral Traditions *Units: 3 ; G.E./G.R. Area: C4; Diversity*
- • ES 326 - Peoples of Central America *Units: 3 ; G.E./G.R. Area: D4; Social Justice*
- • ES 389 - Engaging Communities of Color *Units: 3*
- • ES 398 - Internship *Units: 1-3*
- • ES 490 - Independent Study *Units: 1-4*
- • ES 497 - Issues in Ethnic Studies *Units: 3*

Ethnic Studies: African American Studies

- • ES 245 - Black Flix *Units: 3 ; G.E./G.R. Area: C1; Diversity*
- • ES 301 - Black Feminisms *Units: 3 ; G.E./G.R. Area: D4; Diversity*
- • ES 340 - Black Literature *Units: 3 ; G.E./G.R. Area: C4; Diversity*
- • ES 341 - Enslavement and Resistance in the Americas *Units: 3 ; G.E./G.R. Area: D4; Diversity*
- • ES 342 - James Baldwin *Units: 3 ; G.E./G.R. Area: C4; Social Justice*
- • ES 343 - Black Power *Units: 3 ; G.E./G.R. Area: D4; Social Justice*
- • ES 344 - Malcolm X: Third World Revolutionary *Units: 3 ; G.E./G.R. Area: D4; Social Justice*
- • ES 345 - Jazz Cultures and Communities *Units: 3 ; G.E./G.R. Area: C4; Diversity*
- • ES 346 - Afrofuturism *Units: 3 ; G.E./G.R. Area: C4; Diversity*
- • ES 347 - Black Sexualities *Units: 3 ; G.E./G.R. Area: D4; Diversity*

Ethnic Studies: American Indian Studies

- • ES 303 - Debates in Contemporary Native America *Units: 3 ; G.E./G.R. Area: C4; Diversity*
- • ES 304 - American Indian Oral Literature *Units: 3 ; G.E./G.R. Area: C4; Diversity*
- • ES 305 - Reel Injun: American Indians in Film *Units: 3 ; G.E./G.R. Area: D4; Social Justice*
- • ES 306 - American Indian Liberation *Units: 3 ; G.E./G.R. Area: D4; Social Justice*

- ES 307 - God is Red: American Indian Worldview *Units: 3 ; G.E./G.R. Area: C4; Sustainability*
Ethnic Studies: Asian American Studies
- ES 360 - Asian American Intimacies and Families *Units: 3 ; G.E./G.R. Area: D4; Diversity*
- ES 361 - Asian Immigrant and Refugee Women in Literature and Cinema *Units: 3 ; G.E./G.R. Area: C4; Social Justice*
- ES 362 - Concentration Camps, USA *Units: 3 ; G.E./G.R. Area: D4; Social Justice*
- ES 363 - Asian American & Pacific Islander Film Festival *Units: 3 ; G.E./G.R. Area: C4; Diversity*
- ES 364 - Asian American & Pacific Islander Communities *Units: 3 ; G.E./G.R. Area: D4; Diversity*
- ES 365 - Asian American and Pacific Islander Environmental Voices *Units: 3 ; G.E./G.R. Area: C4; Social Justice*
Ethnic Studies: Genders and Sexualities in Communities of Color
- ES 380 - Queer of Color Histories, Cultures, and Identities *Units: 3 ; G.E./G.R. Area: C4; Social Justice*
- ES 381 - Racialized Masculinities *Units: 3 ; G.E./G.R. Area: D4; Diversity*
- ES 382 - Women of Color Writers: Race, Sex, and Resistance *Units: 3 ; G.E./G.R. Area: C4; Diversity*
- ES 384 - Interracial Sex and Marriage *Units: 3 ; G.E./G.R. Area: C4; Social Justice*
Ethnic Studies: Latino/a Studies
- ES 320 - The Chicano/a Movement *Units: 3 ; G.E./G.R. Area: D4*
- ES 321 - Latinas in the US *Units: 3 ; G.E./G.R. Area: C4; Diversity*
- ES 323 - Latinx and Latin American Film *Units: 3 ; G.E./G.R. Area: C4; Social Justice*
- ES 324 - Latin American Immigration *Units: 3 ; G.E./G.R. Area: C4; Diversity*
- ES 325 - Cultural Production in Mexico and Mesoamerica *Units: 3 ; G.E./G.R. Area: C4; Social Justice*
- ES 327 - Decolonize Your Diet *Units: 3 ; G.E./G.R. Area: D4; Sustainability*

Ethnic Studies, B.A.: Chicanx and Latinx Studies Concentration

Ethnic Studies, B.A. Program (120 units)

Program Description

Ethnic Studies offers an interdisciplinary major, providing a comparative approach to the study of people of color in the United States. Our Ethnic Studies curriculum has a strong social justice focus. Through a systematic study of the cultures, histories, and social realities of communities of color in the US, our students finish our program prepared to work effectively in multiracial, multiethnic, multigender communities.

The Ethnic Studies major consists of 36 units. Our major provides students with considerable flexibility, allowing them to specialize in one group, while also gaining in-depth knowledge and expertise in the range of histories, cultures, and social realities of communities of color. Students work closely with their academic advisor to put together a program that suits their goals and interests. Students take 18 units of core curriculum, 12 units in their concentration, and 6 units in elective courses in Ethnic Studies. Students choose from the following five areas of concentration: American Indian Studies, Asian American Studies, Black Studies, Genders and Sexualities in Communities of Color, and Latinx/Chicanx Studies.

Career Opportunities

College Faculty, Staff, or Administrator • Community Liaison or Organizer • Diversity Specialist • Government Service • Immigration Policy Advocate • Non-Profit Management • Prison Abolitionist • Public Relations • Social Work/Therapist • Teacher/Counselor • Tribal Government • Union Organizer • Urban Planning and Affordable Housing • Youth Advocate

Program Learning Outcomes

Students graduating with a B.A. in Ethnic Studies from Cal State East Bay will be able to:

- Apply Ethnic Studies frameworks and key concepts to promote equity and social justice in our communities.
- Explain discipline-specific theoretical frameworks including critical race theory, intersectionality, women of color feminisms, and/or queer of color theories
- Recognize the complexity, heterogeneity and power dynamics between and within racialized groups in the US.
- Research and write effectively, in individual or collaborative contexts, on issues, ideas, perspectives, and values that affect people of color in the United States;
- Explain the concepts of colonialism, decolonization, genocide, environmental racism, and/or resilience as foundations of indigenous epistemologies and sovereignty.

Degree Requirements Unit-Outline

A baccalaureate of arts degree requires a total of 120 units:

The major requirements consists of 36 units;

General Education (GE) & Graduation Requirements (GR) consists of 57 units;

Free Electives may consist of 27 units (*actual number of free elective units may depend on GE/GR units*).

Note: It may be possible to double-count units within the graduation requirements or that a course may satisfy both a graduation requirement and a major requirement. Students should contact their program and AACE advisors for information.

Ethnic Studies Major Requirements (36 units)

Core Coursework

The following 18 units of lower- and upper-division core coursework are required:

- ES 100 - Introduction to Social Justice in Communities of Color Units: 3 ;
G.E./G.R. Area: D1-3; Social Justice
- ES 200 - Race and Resistance Units: 3 ; *G.E./G.R. Area: C1; Diversity*
- ES 300 - Writing for Social Justice Units: 3 ; *G.E./G.R. Area: UWSR; Social Justice*
- ES 301 - Black Feminisms Units: 3 ; *G.E./G.R. Area: D4; Diversity*
- ES 302 - Eating The Landscape Units: 3 ; *G.E./G.R. Area: C4; Sustainability*
- ES 389 - Engaging Communities of Color Units: 3

Elective Courses

Students must take an additional 6 units of electives in Ethnic Studies NOT in their area of concentration.

Concentrations

Students must choose one (1) concentration for 12 units below as part of the major requirements:

- Ethnic Studies, B.A.: American Indian Studies Concentration
- Ethnic Studies, B.A.: Asian American Studies Concentration
- Ethnic Studies, B.A.: Black Studies Concentration
- Ethnic Studies, B.A.: Chicanx and Latinx Studies Concentration
- Ethnic Studies, B.A.: Comparative Ethnic Studies Concentration (Available Online)
- Ethnic Studies, B.A.: Genders and Sexualities in Communities of Color Concentration (Available Online)

Chicanx and Latinx Studies Concentration

Students with a concentration in Chicanx and Latinx Studies must take 12 units of coursework that focus on Chicanx and Latinx communities. Choose four (4) courses from the following:

- ES 320 - The Chicano/a Movement *Units: 3 ; G.E./G.R. Area: D4*
- ES 321 - Latinas in the US *Units: 3 ; G.E./G.R. Area: C4; Diversity*
- ES 322 - Oral Traditions *Units: 3 ; G.E./G.R. Area: C4; Diversity*
- ES 323 - Latinx and Latin American Film *Units: 3 ; G.E./G.R. Area: C4; Social Justice*
- ES 324 - Latin American Immigration *Units: 3 ; G.E./G.R. Area: C4; Diversity*
- ES 325 - Cultural Production in Mexico and Mesoamerica *Units: 3 ; G.E./G.R. Area: C4; Social Justice*
- ES 326 - Peoples of Central America *Units: 3 ; G.E./G.R. Area: D4; Social Justice*
- ES 327 - Decolonize Your Diet *Units: 3 ; G.E./G.R. Area: D4; Sustainability*
- ES 341 - Enslavement and Resistance in the Americas *Units: 3 ; G.E./G.R. Area: D4; Diversity*

Other Undergraduate Degree Requirements

In addition to major requirements, every student must also complete the University's baccalaureate requirements for graduation, which are described in the Requirements, Exams & Testing chapter of this catalog.

Department Courses Listed by Course Type

Ethnic Studies Courses

Department of Ethnic Studies

Go to information for this department.

Courses

Ethnic Studies

- ES 100 - Introduction to Social Justice in Communities of Color *Units: 3 ; G.E./G.R. Area: D1-3; Social Justice*
- ES 120 - The People's History I *Units: 3 ; G.E./G.R. Area: US-1, US-2, US-3; Social Justice*
- ES 121 - The People's History II *Units: 3 ; G.E./G.R. Area: US-1, US-2, US-3; Social Justice*
- ES 200 - Race and Resistance *Units: 3 ; G.E./G.R. Area: C1; Diversity*
- ES 244 - Mixed Race Identities in the US *Units: 3 ; G.E./G.R. Area: D1-3; Diversity*
- ES 247 - Hip Hop Nation *Units: 3 ; G.E./G.R. Area: C1; Social Justice*
- ES 300 - Writing for Social Justice *Units: 3 ; G.E./G.R. Area: UWSR; Social Justice*
- ES 302 - Eating The Landscape *Units: 3 ; G.E./G.R. Area: C4; Sustainability*
- ES 308 - Cultures of Habitat *Units: 3 ; G.E./G.R. Area: B6; Sustainability*
- ES 322 - Oral Traditions *Units: 3 ; G.E./G.R. Area: C4; Diversity*
- ES 326 - Peoples of Central America *Units: 3 ; G.E./G.R. Area: D4; Social Justice*
- ES 389 - Engaging Communities of Color *Units: 3*
- ES 398 - Internship *Units: 1-3*
- ES 490 - Independent Study *Units: 1-4*
- ES 497 - Issues in Ethnic Studies *Units: 3*

Ethnic Studies: African American Studies

- ES 245 - Black Flix *Units: 3 ; G.E./G.R. Area: C1; Diversity*
- ES 301 - Black Feminisms *Units: 3 ; G.E./G.R. Area: D4; Diversity*
- ES 340 - Black Literature *Units: 3 ; G.E./G.R. Area: C4; Diversity*
- ES 341 - Enslavement and Resistance in the Americas *Units: 3 ; G.E./G.R. Area: D4; Diversity*
- ES 342 - James Baldwin *Units: 3 ; G.E./G.R. Area: C4; Social Justice*
- ES 343 - Black Power *Units: 3 ; G.E./G.R. Area: D4; Social Justice*
- ES 344 - Malcolm X: Third World Revolutionary *Units: 3 ; G.E./G.R. Area: D4; Social Justice*
- ES 345 - Jazz Cultures and Communities *Units: 3 ; G.E./G.R. Area: C4; Diversity*
- ES 346 - Afrofuturism *Units: 3 ; G.E./G.R. Area: C4; Diversity*
- ES 347 - Black Sexualities *Units: 3 ; G.E./G.R. Area: D4; Diversity*

Ethnic Studies: American Indian Studies

- ES 303 - Debates in Contemporary Native America *Units: 3 ; G.E./G.R. Area: C4; Diversity*
- ES 304 - American Indian Oral Literature *Units: 3 ; G.E./G.R. Area: C4; Diversity*
- ES 305 - Reel Injun: American Indians in Film *Units: 3 ; G.E./G.R. Area: D4; Social Justice*
- ES 306 - American Indian Liberation *Units: 3 ; G.E./G.R. Area: D4; Social Justice*
- ES 307 - God is Red: American Indian Worldview *Units: 3 ; G.E./G.R. Area: C4; Sustainability*

Ethnic Studies: Asian American Studies

- ES 360 - Asian American Intimacies and Families *Units: 3 ; G.E./G.R. Area: D4; Diversity*
- ES 361 - Asian Immigrant and Refugee Women in Literature and Cinema *Units: 3 ; G.E./G.R. Area: C4; Social Justice*
- ES 362 - Concentration Camps, USA *Units: 3 ; G.E./G.R. Area: D4; Social Justice*
- ES 363 - Asian American & Pacific Islander Film Festival *Units: 3 ; G.E./G.R. Area: C4; Diversity*
- ES 364 - Asian American & Pacific Islander Communities *Units: 3 ; G.E./G.R. Area: D4; Diversity*
- ES 365 - Asian American and Pacific Islander Environmental Voices *Units: 3 ; G.E./G.R. Area: C4; Social Justice*

Ethnic Studies: Genders and Sexualities in Communities of Color

- ES 380 - Queer of Color Histories, Cultures, and Identities *Units: 3 ; G.E./G.R. Area: C4; Social Justice*
- ES 381 - Racialized Masculinities *Units: 3 ; G.E./G.R. Area: D4; Diversity*

- ES 382 - Women of Color Writers: Race, Sex, and Resistance *Units: 3 ; G.E./G.R. Area: C4; Diversity*
 - ES 384 - Interracial Sex and Marriage *Units: 3 ; G.E./G.R. Area: C4; Social Justice*
- Ethnic Studies: Latino/a Studies**
- ES 320 - The Chicano/a Movement *Units: 3 ; G.E./G.R. Area: D4*
 - ES 321 - Latinas in the US *Units: 3 ; G.E./G.R. Area: C4; Diversity*
 - ES 323 - Latinx and Latin American Film *Units: 3 ; G.E./G.R. Area: C4; Social Justice*
 - ES 324 - Latin American Immigration *Units: 3 ; G.E./G.R. Area: C4; Diversity*
 - ES 325 - Cultural Production in Mexico and Mesoamerica *Units: 3 ; G.E./G.R. Area: C4; Social Justice*
 - ES 327 - Decolonize Your Diet *Units: 3 ; G.E./G.R. Area: D4; Sustainability*

Bachelor Online Degree Completion

Ethnic Studies, B.A.: Comparative Ethnic Studies Concentration (Available Online)

Ethnic Studies, B.A. Program (120 units)

Program Description

Ethnic Studies offers an interdisciplinary major, providing a comparative approach to the study of people of color in the United States. Our Ethnic Studies curriculum has a strong social justice focus. Through a systematic study of the cultures, histories, and social realities of communities of color in the US, our students finish our program prepared to work effectively in multiracial, multiethnic, multigender communities.

The Ethnic Studies major consists of 36 units. Our major provides students with considerable flexibility, allowing them to specialize in one group, while also gaining in-depth knowledge and expertise in the range of histories, cultures, and social realities of communities of color. Students work closely with their academic advisor to put together a program that suits their goals and interests. Students take 18 units of core curriculum, 12 units in their concentration, and 6 units in elective courses in Ethnic Studies. Students choose from the following five areas of concentration: American Indian Studies, Asian American Studies, Black Studies, Genders and Sexualities in Communities of Color, and Latinx/Chicanx Studies.

Career Opportunities

College Faculty, Staff, or Administrator • Community Liaison or Organizer • Diversity Specialist • Government Service • Immigration Policy Advocate • Non-Profit Management • Prison Abolitionist • Public Relations • Social Work/Therapist • Teacher/Counselor • Tribal Government • Union Organizer • Urban Planning and Affordable Housing • Youth Advocate

Program Learning Outcomes

Students graduating with a B.A. in Ethnic Studies from Cal State East Bay will be able to:

- Apply Ethnic Studies frameworks and key concepts to promote equity and social justice in our communities.

- Explain discipline-specific theoretical frameworks including critical race theory, intersectionality, women of color feminisms, and/or queer of color theories
- Recognize the complexity, heterogeneity and power dynamics between and within racialized groups in the US.
- Research and write effectively, in individual or collaborative contexts, on issues, ideas, perspectives, and values that affect people of color in the United States;
- Explain the concepts of colonialism, decolonization, genocide, environmental racism, and/or resilience as foundations of indigenous epistemologies and sovereignty.

Degree Requirements Unit-Outline

A baccalaureate of arts degree requires a total of 120 units:

The major requirements consists of 36 units;

General Education (GE) & Graduation Requirements (GR) consists of 57 units;

Free Electives may consist of 27 units (*actual number of free elective units may depend on GE/GR units*).

Note: It may be possible to double-count units within the graduation requirements or that a course may satisfy both a graduation requirement and a major requirement. Students should contact their program and AACE advisors for information.

Ethnic Studies Major Requirements (36 units)

Core Coursework

The following 18 units of lower- and upper-division core coursework are required:

- ES 100 - Introduction to Social Justice in Communities of Color *Units: 3 ; G.E./G.R. Area: D1-3; Social Justice*
- ES 200 - Race and Resistance *Units: 3 ; G.E./G.R. Area: C1; Diversity*
- ES 300 - Writing for Social Justice *Units: 3 ; G.E./G.R. Area: UWSR; Social Justice*
- ES 301 - Black Feminisms *Units: 3 ; G.E./G.R. Area: D4; Diversity*
- ES 302 - Eating The Landscape *Units: 3 ; G.E./G.R. Area: C4; Sustainability*
- ES 389 - Engaging Communities of Color *Units: 3*

Elective Courses

Students must take an additional 6 units of electives in Ethnic Studies NOT in their area of concentration.

Concentrations

Students must choose one (1) concentration for 12 units below as part of the major requirements:

- Ethnic Studies, B.A.: American Indian Studies Concentration
- Ethnic Studies, B.A.: Asian American Studies Concentration
- Ethnic Studies, B.A.: Black Studies Concentration
- Ethnic Studies, B.A.: Chicanx and Latinx Studies Concentration

- Ethnic Studies, B.A.: Comparative Ethnic Studies Concentration (Available Online)
- Ethnic Studies, B.A.: Genders and Sexualities in Communities of Color Concentration (Available Online)

Comparative Ethnic Studies Concentration

Students must take one (1) course from four out of the five concentrations listed above, (American Indian Studies, Asian American Studies, Black Studies, Latinx and Chicanx Studies, and Genders and Sexualities in Communities of Color) for a total of 12 units.

Note: This concentration is only available to online majors.

Other Undergraduate Degree Requirements

In addition to major requirements, every student must also complete the University's baccalaureate requirements for graduation, which are described in the Requirements, Exams & Testing chapter of this catalog.

Department Courses Listed by Course Type

Ethnic Studies Courses

Department of Ethnic Studies

Go to information for this department.

Courses

Ethnic Studies

- ES 100 - Introduction to Social Justice in Communities of Color *Units: 3 ; G.E./G.R. Area: D1-3; Social Justice*
- ES 120 - The People's History I *Units: 3 ; G.E./G.R. Area: US-1, US-2, US-3; Social Justice*
- ES 121 - The People's History II *Units: 3 ; G.E./G.R. Area: US-1, US-2, US-3; Social Justice*
- ES 200 - Race and Resistance *Units: 3 ; G.E./G.R. Area: C1; Diversity*
- ES 244 - Mixed Race Identities in the US *Units: 3 ; G.E./G.R. Area: D1-3; Diversity*
- ES 247 - Hip Hop Nation *Units: 3 ; G.E./G.R. Area: C1; Social Justice*
- ES 300 - Writing for Social Justice *Units: 3 ; G.E./G.R. Area: UWSR; Social Justice*
- ES 302 - Eating The Landscape *Units: 3 ; G.E./G.R. Area: C4; Sustainability*
- ES 308 - Cultures of Habitat *Units: 3 ; G.E./G.R. Area: B6; Sustainability*
- ES 322 - Oral Traditions *Units: 3 ; G.E./G.R. Area: C4; Diversity*
- ES 326 - Peoples of Central America *Units: 3 ; G.E./G.R. Area: D4; Social Justice*
- ES 389 - Engaging Communities of Color *Units: 3*
- ES 398 - Internship *Units: 1-3*
- ES 490 - Independent Study *Units: 1-4*
- ES 497 - Issues in Ethnic Studies *Units: 3*

Ethnic Studies: African American Studies

- ES 245 - Black Flix *Units: 3 ; G.E./G.R. Area: C1; Diversity*

- ES 301 - Black Feminisms *Units: 3 ; G.E./G.R. Area: D4; Diversity*
- ES 340 - Black Literature *Units: 3 ; G.E./G.R. Area: C4; Diversity*
- ES 341 - Enslavement and Resistance in the Americas *Units: 3 ; G.E./G.R. Area: D4; Diversity*
- ES 342 - James Baldwin *Units: 3 ; G.E./G.R. Area: C4; Social Justice*
- ES 343 - Black Power *Units: 3 ; G.E./G.R. Area: D4; Social Justice*
- ES 344 - Malcolm X: Third World Revolutionary *Units: 3 ; G.E./G.R. Area: D4; Social Justice*
- ES 345 - Jazz Cultures and Communities *Units: 3 ; G.E./G.R. Area: C4; Diversity*
- ES 346 - Afrofuturism *Units: 3 ; G.E./G.R. Area: C4; Diversity*
- ES 347 - Black Sexualities *Units: 3 ; G.E./G.R. Area: D4; Diversity*

Ethnic Studies: American Indian Studies

- ES 303 - Debates in Contemporary Native America *Units: 3 ; G.E./G.R. Area: C4; Diversity*
- ES 304 - American Indian Oral Literature *Units: 3 ; G.E./G.R. Area: C4; Diversity*
- ES 305 - Reel Injun: American Indians in Film *Units: 3 ; G.E./G.R. Area: D4; Social Justice*
- ES 306 - American Indian Liberation *Units: 3 ; G.E./G.R. Area: D4; Social Justice*
- ES 307 - God is Red: American Indian Worldview *Units: 3 ; G.E./G.R. Area: C4; Sustainability*

Ethnic Studies: Asian American Studies

- ES 360 - Asian American Intimacies and Families *Units: 3 ; G.E./G.R. Area: D4; Diversity*
- ES 361 - Asian Immigrant and Refugee Women in Literature and Cinema *Units: 3 ; G.E./G.R. Area: C4; Social Justice*
- ES 362 - Concentration Camps, USA *Units: 3 ; G.E./G.R. Area: D4; Social Justice*
- ES 363 - Asian American & Pacific Islander Film Festival *Units: 3 ; G.E./G.R. Area: C4; Diversity*
- ES 364 - Asian American & Pacific Islander Communities *Units: 3 ; G.E./G.R. Area: D4; Diversity*
- ES 365 - Asian American and Pacific Islander Environmental Voices *Units: 3 ; G.E./G.R. Area: C4; Social Justice*

Ethnic Studies: Genders and Sexualities in Communities of Color

- ES 380 - Queer of Color Histories, Cultures, and Identities *Units: 3 ; G.E./G.R. Area: C4; Social Justice*
- ES 381 - Racialized Masculinities *Units: 3 ; G.E./G.R. Area: D4; Diversity*
- ES 382 - Women of Color Writers: Race, Sex, and Resistance *Units: 3 ; G.E./G.R. Area: C4; Diversity*
- ES 384 - Interracial Sex and Marriage *Units: 3 ; G.E./G.R. Area: C4; Social Justice*

Ethnic Studies: Latino/a Studies

- ES 320 - The Chicano/a Movement *Units: 3 ; G.E./G.R. Area: D4*
- ES 321 - Latinas in the US *Units: 3 ; G.E./G.R. Area: C4; Diversity*
- ES 323 - Latinx and Latin American Film *Units: 3 ; G.E./G.R. Area: C4; Social Justice*
- ES 324 - Latin American Immigration *Units: 3 ; G.E./G.R. Area: C4; Diversity*
- ES 325 - Cultural Production in Mexico and Mesoamerica *Units: 3 ; G.E./G.R. Area: C4; Social Justice*
- ES 327 - Decolonize Your Diet *Units: 3 ; G.E./G.R. Area: D4; Sustainability*

Ethnic Studies, B.A.: Genders and Sexualities in Communities of Color Concentration (Available Online)

Ethnic Studies, B.A. Program (120 units)

Program Description

Ethnic Studies offers an interdisciplinary major, providing a comparative approach to the study of people of color in the United States. Our Ethnic Studies curriculum has a strong social justice focus. Through a systematic study of the cultures, histories, and social realities of communities of color in the US, our students finish our program prepared to work effectively in multiracial, multiethnic, multigender communities.

The Ethnic Studies major consists of 36 units. Our major provides students with considerable flexibility, allowing them to specialize in one group, while also gaining in-depth knowledge and expertise in the range of histories, cultures, and social realities of communities of color. Students work closely with their academic advisor to put together a program that suits their goals and interests. Students take 18 units of core curriculum, 12 units in their concentration, and 6 units in elective courses in Ethnic Studies. Students choose from the following five areas of concentration: American Indian Studies, Asian American Studies, Black Studies, Genders and Sexualities in Communities of Color, and Latinx/Chicanx Studies.

Career Opportunities

College Faculty, Staff, or Administrator • Community Liaison or Organizer • Diversity Specialist • Government Service • Immigration Policy Advocate • Non-Profit Management • Prison Abolitionist • Public Relations • Social Work/Therapist • Teacher/Counselor • Tribal Government • Union Organizer • Urban Planning and Affordable Housing • Youth Advocate

Program Learning Outcomes

Students graduating with a B.A. in Ethnic Studies from Cal State East Bay will be able to:

- Apply Ethnic Studies frameworks and key concepts to promote equity and social justice in our communities.
- Explain discipline-specific theoretical frameworks including critical race theory, intersectionality, women of color feminisms, and/or queer of color theories
- Recognize the complexity, heterogeneity and power dynamics between and within racialized groups in the US.
- Research and write effectively, in individual or collaborative contexts, on issues, ideas, perspectives, and values that affect people of color in the United States;
- Explain the concepts of colonialism, decolonization, genocide, environmental racism, and/or resilience as foundations of indigenous epistemologies and sovereignty.

Degree Requirements Unit-Outline

A baccalaureate of arts degree requires a total of 120 units:

The major requirements consists of 36 units;

General Education (GE) & Graduation Requirements (GR) consists of 57 units;

Free Electives may consist of 27 units (*actual number of free elective units may depend on GE/GR units*).

Note: It may be possible to double-count units within the graduation requirements or that a course may satisfy both a graduation requirement and a major requirement. Students should contact their program and AACE advisors for information.

Ethnic Studies Major Requirements (36 units)

Core Coursework

The following 18 units of lower- and upper-division core coursework are required:

- **ES 100 - Introduction to Social Justice in Communities of Color** *Units: 3 ; G.E./G.R. Area: D1-3; Social Justice*
- **ES 200 - Race and Resistance** *Units: 3 ; G.E./G.R. Area: C1; Diversity*
- **ES 300 - Writing for Social Justice** *Units: 3 ; G.E./G.R. Area: UWSR; Social Justice*
- **ES 301 - Black Feminisms** *Units: 3 ; G.E./G.R. Area: D4; Diversity*
- **ES 302 - Eating The Landscape** *Units: 3 ; G.E./G.R. Area: C4; Sustainability*
- **ES 389 - Engaging Communities of Color** *Units: 3*

Elective Courses

Students must take an additional 6 units of electives in Ethnic Studies NOT in their area of concentration.

Concentrations

Students must choose one (1) concentration for 12 units below as part of the major requirements:

- Ethnic Studies, B.A.: American Indian Studies Concentration
- Ethnic Studies, B.A.: Asian American Studies Concentration
- Ethnic Studies, B.A.: Black Studies Concentration
- Ethnic Studies, B.A.: Chicanx and Latinx Studies Concentration
- Ethnic Studies, B.A.: Comparative Ethnic Studies Concentration (Available Online)
- Ethnic Studies, B.A.: Genders and Sexualities in Communities of Color Concentration (Available Online)

Genders and Sexualities in Communities of Color Concentration

Students with a concentration in Genders and Sexualities in Communities of Color must take 12 units of coursework that focus on issues related to gender and sexual identity in communities of color in the US. Choose four (4) courses from the following:

Note: This concentration is open to both online and on ground majors.

- **ES 321 - Latinas in the US** *Units: 3 ; G.E./G.R. Area: C4; Diversity*
- **ES 342 - James Baldwin** *Units: 3 ; G.E./G.R. Area: C4; Social Justice*
- **ES 347 - Black Sexualities** *Units: 3 ; G.E./G.R. Area: D4; Diversity*
- **ES 360 - Asian American Intimacies and Families** *Units: 3 ; G.E./G.R. Area: D4; Diversity*
- **ES 361 - Asian Immigrant and Refugee Women in Literature and Cinema** *Units: 3 ; G.E./G.R. Area: C4; Social Justice*
- **ES 380 - Queer of Color Histories, Cultures, and Identities** *Units: 3 ; G.E./G.R. Area: C4; Social Justice*
- **ES 381 - Racialized Masculinities** *Units: 3 ; G.E./G.R. Area: D4; Diversity*

- ES 382 - Women of Color Writers: Race, Sex, and Resistance *Units: 3 ; G.E./G.R. Area: C4; Diversity*
- ES 384 - Interracial Sex and Marriage *Units: 3 ; G.E./G.R. Area: C4; Social Justice*

Other Undergraduate Degree Requirements

In addition to major requirements, every student must also complete the University's baccalaureate requirements for graduation, which are described in the Requirements, Exams & Testing chapter of this catalog.

Department Courses Listed by Course Type

Ethnic Studies Courses

Department of Ethnic Studies

Go to information for this department.

Courses

Ethnic Studies

- ES 100 - Introduction to Social Justice in Communities of Color *Units: 3 ; G.E./G.R. Area: D1-3; Social Justice*
- ES 120 - The People's History I *Units: 3 ; G.E./G.R. Area: US-1, US-2, US-3; Social Justice*
- ES 121 - The People's History II *Units: 3 ; G.E./G.R. Area: US-1, US-2, US-3; Social Justice*
- ES 200 - Race and Resistance *Units: 3 ; G.E./G.R. Area: C1; Diversity*
- ES 244 - Mixed Race Identities in the US *Units: 3 ; G.E./G.R. Area: D1-3; Diversity*
- ES 247 - Hip Hop Nation *Units: 3 ; G.E./G.R. Area: C1; Social Justice*
- ES 300 - Writing for Social Justice *Units: 3 ; G.E./G.R. Area: UWSR; Social Justice*
- ES 302 - Eating The Landscape *Units: 3 ; G.E./G.R. Area: C4; Sustainability*
- ES 308 - Cultures of Habitat *Units: 3 ; G.E./G.R. Area: B6; Sustainability*
- ES 322 - Oral Traditions *Units: 3 ; G.E./G.R. Area: C4; Diversity*
- ES 326 - Peoples of Central America *Units: 3 ; G.E./G.R. Area: D4; Social Justice*
- ES 389 - Engaging Communities of Color *Units: 3*
- ES 398 - Internship *Units: 1-3*
- ES 490 - Independent Study *Units: 1-4*
- ES 497 - Issues in Ethnic Studies *Units: 3*

Ethnic Studies: African American Studies

- ES 245 - Black Flix *Units: 3 ; G.E./G.R. Area: C1; Diversity*
- ES 301 - Black Feminisms *Units: 3 ; G.E./G.R. Area: D4; Diversity*
- ES 340 - Black Literature *Units: 3 ; G.E./G.R. Area: C4; Diversity*
- ES 341 - Enslavement and Resistance in the Americas *Units: 3 ; G.E./G.R. Area: D4; Diversity*
- ES 342 - James Baldwin *Units: 3 ; G.E./G.R. Area: C4; Social Justice*
- ES 343 - Black Power *Units: 3 ; G.E./G.R. Area: D4; Social Justice*
- ES 344 - Malcolm X: Third World Revolutionary *Units: 3 ; G.E./G.R. Area: D4; Social Justice*
- ES 345 - Jazz Cultures and Communities *Units: 3 ; G.E./G.R. Area: C4; Diversity*
- ES 346 - Afrofuturism *Units: 3 ; G.E./G.R. Area: C4; Diversity*

- ES 347 - Black Sexualities *Units: 3 ; G.E./G.R. Area: D4; Diversity*

Ethnic Studies: American Indian Studies

- ES 303 - Debates in Contemporary Native America *Units: 3 ; G.E./G.R. Area: C4; Diversity*
- ES 304 - American Indian Oral Literature *Units: 3 ; G.E./G.R. Area: C4; Diversity*
- ES 305 - Reel Injun: American Indians in Film *Units: 3 ; G.E./G.R. Area: D4; Social Justice*
- ES 306 - American Indian Liberation *Units: 3 ; G.E./G.R. Area: D4; Social Justice*
- ES 307 - God is Red: American Indian Worldview *Units: 3 ; G.E./G.R. Area: C4; Sustainability*

Ethnic Studies: Asian American Studies

- ES 360 - Asian American Intimacies and Families *Units: 3 ; G.E./G.R. Area: D4; Diversity*
- ES 361 - Asian Immigrant and Refugee Women in Literature and Cinema *Units: 3 ; G.E./G.R. Area: C4; Social Justice*
- ES 362 - Concentration Camps, USA *Units: 3 ; G.E./G.R. Area: D4; Social Justice*
- ES 363 - Asian American & Pacific Islander Film Festival *Units: 3 ; G.E./G.R. Area: C4; Diversity*
- ES 364 - Asian American & Pacific Islander Communities *Units: 3 ; G.E./G.R. Area: D4; Diversity*
- ES 365 - Asian American and Pacific Islander Environmental Voices *Units: 3 ; G.E./G.R. Area: C4; Social Justice*

Ethnic Studies: Genders and Sexualities in Communities of Color

- ES 380 - Queer of Color Histories, Cultures, and Identities *Units: 3 ; G.E./G.R. Area: C4; Social Justice*
- ES 381 - Racialized Masculinities *Units: 3 ; G.E./G.R. Area: D4; Diversity*
- ES 382 - Women of Color Writers: Race, Sex, and Resistance *Units: 3 ; G.E./G.R. Area: C4; Diversity*
- ES 384 - Interracial Sex and Marriage *Units: 3 ; G.E./G.R. Area: C4; Social Justice*

Ethnic Studies: Latino/a Studies

- ES 320 - The Chicano/a Movement *Units: 3 ; G.E./G.R. Area: D4*
- ES 321 - Latinas in the US *Units: 3 ; G.E./G.R. Area: C4; Diversity*
- ES 323 - Latinx and Latin American Film *Units: 3 ; G.E./G.R. Area: C4; Social Justice*
- ES 324 - Latin American Immigration *Units: 3 ; G.E./G.R. Area: C4; Diversity*
- ES 325 - Cultural Production in Mexico and Mesoamerica *Units: 3 ; G.E./G.R. Area: C4; Social Justice*
- ES 327 - Decolonize Your Diet *Units: 3 ; G.E./G.R. Area: D4; Sustainability*

Minor

American Indian Studies Minor

Minor Requirements (15 units)

Required Courses

Take the following 6 units:

- ES 100 - Introduction to Social Justice in Communities of Color *Units: 3 ; G.E./G.R. Area: D1-3; Social Justice*
- ES 389 - Engaging Communities of Color *Units: 3*

Electives

Choose three (3) courses for 9 units from the following:

- ES 302 - Eating The Landscape *Units: 3 ; G.E./G.R. Area: C4; Sustainability*
- ES 303 - Debates in Contemporary Native America *Units: 3 ; G.E./G.R. Area: C4; Diversity*
- ES 304 - American Indian Oral Literature *Units: 3 ; G.E./G.R. Area: C4; Diversity*
- ES 305 - Reel Injun: American Indians in Film *Units: 3 ; G.E./G.R. Area: D4; Social Justice*
- ES 306 - American Indian Liberation *Units: 3 ; G.E./G.R. Area: D4; Social Justice*
- ES 307 - God is Red: American Indian Worldview *Units: 3 ; G.E./G.R. Area: C4; Sustainability*
- ES 308 - Cultures of Habitat *Units: 3 ; G.E./G.R. Area: B6; Sustainability*
- ES 327 - Decolonize Your Diet *Units: 3 ; G.E./G.R. Area: D4; Sustainability*

Department Courses Listed by Course Type

Ethnic Studies Courses

Department of Ethnic Studies

Go to information for this department.

Courses

Ethnic Studies

- ES 100 - Introduction to Social Justice in Communities of Color *Units: 3 ; G.E./G.R. Area: D1-3; Social Justice*
 - ES 120 - The People's History I *Units: 3 ; G.E./G.R. Area: US-1, US-2, US-3; Social Justice*
 - ES 121 - The People's History II *Units: 3 ; G.E./G.R. Area: US-1, US-2, US-3; Social Justice*
 - ES 200 - Race and Resistance *Units: 3 ; G.E./G.R. Area: C1; Diversity*
 - ES 244 - Mixed Race Identities in the US *Units: 3 ; G.E./G.R. Area: D1-3; Diversity*
 - ES 247 - Hip Hop Nation *Units: 3 ; G.E./G.R. Area: C1; Social Justice*
 - ES 300 - Writing for Social Justice *Units: 3 ; G.E./G.R. Area: UWSR; Social Justice*
 - ES 302 - Eating The Landscape *Units: 3 ; G.E./G.R. Area: C4; Sustainability*
 - ES 308 - Cultures of Habitat *Units: 3 ; G.E./G.R. Area: B6; Sustainability*
 - ES 322 - Oral Traditions *Units: 3 ; G.E./G.R. Area: C4; Diversity*
 - ES 326 - Peoples of Central America *Units: 3 ; G.E./G.R. Area: D4; Social Justice*
 - ES 389 - Engaging Communities of Color *Units: 3*
 - ES 398 - Internship *Units: 1-3*
 - ES 490 - Independent Study *Units: 1-4*
 - ES 497 - Issues in Ethnic Studies *Units: 3*
- Ethnic Studies: African American Studies**
- ES 245 - Black Flix *Units: 3 ; G.E./G.R. Area: C1; Diversity*
 - ES 301 - Black Feminisms *Units: 3 ; G.E./G.R. Area: D4; Diversity*
 - ES 340 - Black Literature *Units: 3 ; G.E./G.R. Area: C4; Diversity*

- ES 341 - Enslavement and Resistance in the Americas *Units: 3 ; G.E./G.R. Area: D4; Diversity*
- ES 342 - James Baldwin *Units: 3 ; G.E./G.R. Area: C4; Social Justice*
- ES 343 - Black Power *Units: 3 ; G.E./G.R. Area: D4; Social Justice*
- ES 344 - Malcolm X: Third World Revolutionary *Units: 3 ; G.E./G.R. Area: D4; Social Justice*
- ES 345 - Jazz Cultures and Communities *Units: 3 ; G.E./G.R. Area: C4; Diversity*
- ES 346 - Afrofuturism *Units: 3 ; G.E./G.R. Area: C4; Diversity*
- ES 347 - Black Sexualities *Units: 3 ; G.E./G.R. Area: D4; Diversity*

Ethnic Studies: American Indian Studies

- ES 303 - Debates in Contemporary Native America *Units: 3 ; G.E./G.R. Area: C4; Diversity*
- ES 304 - American Indian Oral Literature *Units: 3 ; G.E./G.R. Area: C4; Diversity*
- ES 305 - Reel Injun: American Indians in Film *Units: 3 ; G.E./G.R. Area: D4; Social Justice*
- ES 306 - American Indian Liberation *Units: 3 ; G.E./G.R. Area: D4; Social Justice*
- ES 307 - God is Red: American Indian Worldview *Units: 3 ; G.E./G.R. Area: C4; Sustainability*

Ethnic Studies: Asian American Studies

- ES 360 - Asian American Intimacies and Families *Units: 3 ; G.E./G.R. Area: D4; Diversity*
- ES 361 - Asian Immigrant and Refugee Women in Literature and Cinema *Units: 3 ; G.E./G.R. Area: C4; Social Justice*
- ES 362 - Concentration Camps, USA *Units: 3 ; G.E./G.R. Area: D4; Social Justice*
- ES 363 - Asian American & Pacific Islander Film Festival *Units: 3 ; G.E./G.R. Area: C4; Diversity*
- ES 364 - Asian American & Pacific Islander Communities *Units: 3 ; G.E./G.R. Area: D4; Diversity*
- ES 365 - Asian American and Pacific Islander Environmental Voices *Units: 3 ; G.E./G.R. Area: C4; Social Justice*

Ethnic Studies: Genders and Sexualities in Communities of Color

- ES 380 - Queer of Color Histories, Cultures, and Identities *Units: 3 ; G.E./G.R. Area: C4; Social Justice*
- ES 381 - Racialized Masculinities *Units: 3 ; G.E./G.R. Area: D4; Diversity*
- ES 382 - Women of Color Writers: Race, Sex, and Resistance *Units: 3 ; G.E./G.R. Area: C4; Diversity*
- ES 384 - Interracial Sex and Marriage *Units: 3 ; G.E./G.R. Area: C4; Social Justice*

Ethnic Studies: Latino/a Studies

- ES 320 - The Chicano/a Movement *Units: 3 ; G.E./G.R. Area: D4*
- ES 321 - Latinas in the US *Units: 3 ; G.E./G.R. Area: C4; Diversity*
- ES 323 - Latinx and Latin American Film *Units: 3 ; G.E./G.R. Area: C4; Social Justice*
- ES 324 - Latin American Immigration *Units: 3 ; G.E./G.R. Area: C4; Diversity*
- ES 325 - Cultural Production in Mexico and Mesoamerica *Units: 3 ; G.E./G.R. Area: C4; Social Justice*
- ES 327 - Decolonize Your Diet *Units: 3 ; G.E./G.R. Area: D4; Sustainability*

Asian American Studies Minor

Minor Requirements (15 units)

Required Courses

Take the following 6 units:

- ES 100 - Introduction to Social Justice in Communities of Color *Units: 3 ; G.E./G.R. Area: D1-3; Social Justice*
- ES 389 - Engaging Communities of Color *Units: 3*

Electives

Choose three (3) courses for 9 units from the following:

- ES 360 - Asian American Intimacies and Families *Units: 3 ; G.E./G.R. Area: D4; Diversity*
- ES 361 - Asian Immigrant and Refugee Women in Literature and Cinema *Units: 3 ; G.E./G.R. Area: C4; Social Justice*
- ES 362 - Concentration Camps, USA *Units: 3 ; G.E./G.R. Area: D4; Social Justice*
- ES 363 - Asian American & Pacific Islander Film Festival *Units: 3 ; G.E./G.R. Area: C4; Diversity*
- ES 364 - Asian American & Pacific Islander Communities *Units: 3 ; G.E./G.R. Area: D4; Diversity*
- ES 365 - Asian American and Pacific Islander Environmental Voices *Units: 3 ; G.E./G.R. Area: C4; Social Justice*

Department Courses Listed by Course Type

Ethnic Studies Courses

Department of Ethnic Studies

Go to information for this department.

Courses

Ethnic Studies

- ES 100 - Introduction to Social Justice in Communities of Color *Units: 3 ; G.E./G.R. Area: D1-3; Social Justice*
- ES 120 - The People's History I *Units: 3 ; G.E./G.R. Area: US-1, US-2, US-3; Social Justice*
- ES 121 - The People's History II *Units: 3 ; G.E./G.R. Area: US-1, US-2, US-3; Social Justice*
- ES 200 - Race and Resistance *Units: 3 ; G.E./G.R. Area: C1; Diversity*
- ES 244 - Mixed Race Identities in the US *Units: 3 ; G.E./G.R. Area: D1-3; Diversity*
- ES 247 - Hip Hop Nation *Units: 3 ; G.E./G.R. Area: C1; Social Justice*
- ES 300 - Writing for Social Justice *Units: 3 ; G.E./G.R. Area: UWSR; Social Justice*
- ES 302 - Eating The Landscape *Units: 3 ; G.E./G.R. Area: C4; Sustainability*
- ES 308 - Cultures of Habitat *Units: 3 ; G.E./G.R. Area: B6; Sustainability*
- ES 322 - Oral Traditions *Units: 3 ; G.E./G.R. Area: C4; Diversity*
- ES 326 - Peoples of Central America *Units: 3 ; G.E./G.R. Area: D4; Social Justice*
- ES 389 - Engaging Communities of Color *Units: 3*
- ES 398 - Internship *Units: 1-3*
- ES 490 - Independent Study *Units: 1-4*
- ES 497 - Issues in Ethnic Studies *Units: 3*

Ethnic Studies: African American Studies

- ES 245 - Black Flix *Units: 3 ; G.E./G.R. Area: C1; Diversity*
- ES 301 - Black Feminisms *Units: 3 ; G.E./G.R. Area: D4; Diversity*
- ES 340 - Black Literature *Units: 3 ; G.E./G.R. Area: C4; Diversity*
- ES 341 - Enslavement and Resistance in the Americas *Units: 3 ; G.E./G.R. Area: D4; Diversity*
- ES 342 - James Baldwin *Units: 3 ; G.E./G.R. Area: C4; Social Justice*
- ES 343 - Black Power *Units: 3 ; G.E./G.R. Area: D4; Social Justice*
- ES 344 - Malcolm X: Third World Revolutionary *Units: 3 ; G.E./G.R. Area: D4; Social Justice*
- ES 345 - Jazz Cultures and Communities *Units: 3 ; G.E./G.R. Area: C4; Diversity*
- ES 346 - Afrofuturism *Units: 3 ; G.E./G.R. Area: C4; Diversity*
- ES 347 - Black Sexualities *Units: 3 ; G.E./G.R. Area: D4; Diversity*

Ethnic Studies: American Indian Studies

- ES 303 - Debates in Contemporary Native America *Units: 3 ; G.E./G.R. Area: C4; Diversity*
- ES 304 - American Indian Oral Literature *Units: 3 ; G.E./G.R. Area: C4; Diversity*
- ES 305 - Reel Injun: American Indians in Film *Units: 3 ; G.E./G.R. Area: D4; Social Justice*
- ES 306 - American Indian Liberation *Units: 3 ; G.E./G.R. Area: D4; Social Justice*
- ES 307 - God is Red: American Indian Worldview *Units: 3 ; G.E./G.R. Area: C4; Sustainability*

Ethnic Studies: Asian American Studies

- ES 360 - Asian American Intimacies and Families *Units: 3 ; G.E./G.R. Area: D4; Diversity*
- ES 361 - Asian Immigrant and Refugee Women in Literature and Cinema *Units: 3 ; G.E./G.R. Area: C4; Social Justice*
- ES 362 - Concentration Camps, USA *Units: 3 ; G.E./G.R. Area: D4; Social Justice*
- ES 363 - Asian American & Pacific Islander Film Festival *Units: 3 ; G.E./G.R. Area: C4; Diversity*
- ES 364 - Asian American & Pacific Islander Communities *Units: 3 ; G.E./G.R. Area: D4; Diversity*
- ES 365 - Asian American and Pacific Islander Environmental Voices *Units: 3 ; G.E./G.R. Area: C4; Social Justice*

Ethnic Studies: Genders and Sexualities in Communities of Color

- ES 380 - Queer of Color Histories, Cultures, and Identities *Units: 3 ; G.E./G.R. Area: C4; Social Justice*
- ES 381 - Racialized Masculinities *Units: 3 ; G.E./G.R. Area: D4; Diversity*
- ES 382 - Women of Color Writers: Race, Sex, and Resistance *Units: 3 ; G.E./G.R. Area: C4; Diversity*
- ES 384 - Interracial Sex and Marriage *Units: 3 ; G.E./G.R. Area: C4; Social Justice*

Ethnic Studies: Latino/a Studies

- ES 320 - The Chicano/a Movement *Units: 3 ; G.E./G.R. Area: D4*
- ES 321 - Latinas in the US *Units: 3 ; G.E./G.R. Area: C4; Diversity*
- ES 323 - Latinx and Latin American Film *Units: 3 ; G.E./G.R. Area: C4; Social Justice*
- ES 324 - Latin American Immigration *Units: 3 ; G.E./G.R. Area: C4; Diversity*
- ES 325 - Cultural Production in Mexico and Mesoamerica *Units: 3 ; G.E./G.R. Area: C4; Social Justice*
- ES 327 - Decolonize Your Diet *Units: 3 ; G.E./G.R. Area: D4; Sustainability*

Black Studies Minor

Minor Requirements (15 units)

The Black Studies Minor offers students majoring in another discipline the opportunity to acquire knowledge and understanding in one of the nation's emerging and rapidly growing ethnic groups. An

exploration of art, literature, politics, and social dynamics of this community will prepare students to become dynamic leaders in fields such as education, law, non-profit management and more.

Required Courses

Take the following 6 units:

- **ES 100 - Introduction to Social Justice in Communities of Color** *Units: 3 ; G.E./G.R. Area: D1-3; Social Justice*
- **ES 389 - Engaging Communities of Color** *Units: 3*

Electives

Choose three (3) courses for 9 units from the following:

- **ES 245 - Black Flix** *Units: 3 ; G.E./G.R. Area: C1; Diversity*
- **ES 247 - Hip Hop Nation** *Units: 3 ; G.E./G.R. Area: C1; Social Justice*
- **ES 301 - Black Feminisms** *Units: 3 ; G.E./G.R. Area: D4; Diversity*
- **ES 340 - Black Literature** *Units: 3 ; G.E./G.R. Area: C4; Diversity*
- **ES 341 - Enslavement and Resistance in the Americas** *Units: 3 ; G.E./G.R. Area: D4; Diversity*
- **ES 342 - James Baldwin** *Units: 3 ; G.E./G.R. Area: C4; Social Justice*
- **ES 343 - Black Power** *Units: 3 ; G.E./G.R. Area: D4; Social Justice*
- **ES 344 - Malcolm X: Third World Revolutionary** *Units: 3 ; G.E./G.R. Area: D4; Social Justice*
- **ES 345 - Jazz Cultures and Communities** *Units: 3 ; G.E./G.R. Area: C4; Diversity*
- **ES 346 - Afrofuturism** *Units: 3 ; G.E./G.R. Area: C4; Diversity*
- **ES 347 - Black Sexualities** *Units: 3 ; G.E./G.R. Area: D4; Diversity*

Department Courses Listed by Course Type

Ethnic Studies Courses

Department of Ethnic Studies

Go to information for this department.

Courses

Ethnic Studies

- - **ES 100 - Introduction to Social Justice in Communities of Color** *Units: 3 ; G.E./G.R. Area: D1-3; Social Justice*
 - **ES 120 - The People's History I** *Units: 3 ; G.E./G.R. Area: US-1, US-2, US-3; Social Justice*
 - **ES 121 - The People's History II** *Units: 3 ; G.E./G.R. Area: US-1, US-2, US-3; Social Justice*
 - **ES 200 - Race and Resistance** *Units: 3 ; G.E./G.R. Area: C1; Diversity*
 - **ES 244 - Mixed Race Identities in the US** *Units: 3 ; G.E./G.R. Area: D1-3; Diversity*

- ES 247 - Hip Hop Nation *Units: 3 ; G.E./G.R. Area: C1; Social Justice*
- ES 300 - Writing for Social Justice *Units: 3 ; G.E./G.R. Area: UWSR; Social Justice*
- ES 302 - Eating The Landscape *Units: 3 ; G.E./G.R. Area: C4; Sustainability*
- ES 308 - Cultures of Habitat *Units: 3 ; G.E./G.R. Area: B6; Sustainability*
- ES 322 - Oral Traditions *Units: 3 ; G.E./G.R. Area: C4; Diversity*
- ES 326 - Peoples of Central America *Units: 3 ; G.E./G.R. Area: D4; Social Justice*
- ES 389 - Engaging Communities of Color *Units: 3*
- ES 398 - Internship *Units: 1-3*
- ES 490 - Independent Study *Units: 1-4*
- ES 497 - Issues in Ethnic Studies *Units: 3*

Ethnic Studies: African American Studies

- ES 245 - Black Flix *Units: 3 ; G.E./G.R. Area: C1; Diversity*
- ES 301 - Black Feminisms *Units: 3 ; G.E./G.R. Area: D4; Diversity*
- ES 340 - Black Literature *Units: 3 ; G.E./G.R. Area: C4; Diversity*
- ES 341 - Enslavement and Resistance in the Americas *Units: 3 ; G.E./G.R. Area: D4; Diversity*
- ES 342 - James Baldwin *Units: 3 ; G.E./G.R. Area: C4; Social Justice*
- ES 343 - Black Power *Units: 3 ; G.E./G.R. Area: D4; Social Justice*
- ES 344 - Malcolm X: Third World Revolutionary *Units: 3 ; G.E./G.R. Area: D4; Social Justice*
- ES 345 - Jazz Cultures and Communities *Units: 3 ; G.E./G.R. Area: C4; Diversity*
- ES 346 - Afrofuturism *Units: 3 ; G.E./G.R. Area: C4; Diversity*
- ES 347 - Black Sexualities *Units: 3 ; G.E./G.R. Area: D4; Diversity*

Ethnic Studies: American Indian Studies

- ES 303 - Debates in Contemporary Native America *Units: 3 ; G.E./G.R. Area: C4; Diversity*
- ES 304 - American Indian Oral Literature *Units: 3 ; G.E./G.R. Area: C4; Diversity*
- ES 305 - Reel Injun: American Indians in Film *Units: 3 ; G.E./G.R. Area: D4; Social Justice*
- ES 306 - American Indian Liberation *Units: 3 ; G.E./G.R. Area: D4; Social Justice*
- ES 307 - God is Red: American Indian Worldview *Units: 3 ; G.E./G.R. Area: C4; Sustainability*

Ethnic Studies: Asian American Studies

- ES 360 - Asian American Intimacies and Families *Units: 3 ; G.E./G.R. Area: D4; Diversity*
- ES 361 - Asian Immigrant and Refugee Women in Literature and Cinema *Units: 3 ; G.E./G.R. Area: C4; Social Justice*
- ES 362 - Concentration Camps, USA *Units: 3 ; G.E./G.R. Area: D4; Social Justice*
- ES 363 - Asian American & Pacific Islander Film Festival *Units: 3 ; G.E./G.R. Area: C4; Diversity*
- ES 364 - Asian American & Pacific Islander Communities *Units: 3 ; G.E./G.R. Area: D4; Diversity*
- ES 365 - Asian American and Pacific Islander Environmental Voices *Units: 3 ; G.E./G.R. Area: C4; Social Justice*

Ethnic Studies: Genders and Sexualities in Communities of Color

- ES 380 - Queer of Color Histories, Cultures, and Identities *Units: 3 ; G.E./G.R. Area: C4; Social Justice*
- ES 381 - Racialized Masculinities *Units: 3 ; G.E./G.R. Area: D4; Diversity*
- ES 382 - Women of Color Writers: Race, Sex, and Resistance *Units: 3 ; G.E./G.R. Area: C4; Diversity*
- ES 384 - Interracial Sex and Marriage *Units: 3 ; G.E./G.R. Area: C4; Social Justice*

Ethnic Studies: Latino/a Studies

- ES 320 - The Chicano/a Movement *Units: 3 ; G.E./G.R. Area: D4*
- ES 321 - Latinas in the US *Units: 3 ; G.E./G.R. Area: C4; Diversity*
- ES 323 - Latinx and Latin American Film *Units: 3 ; G.E./G.R. Area: C4; Social Justice*

- ES 324 - Latin American Immigration *Units: 3 ; G.E./G.R. Area: C4; Diversity*
- ES 325 - Cultural Production in Mexico and Mesoamerica *Units: 3 ; G.E./G.R. Area: C4; Social Justice*
- ES 327 - Decolonize Your Diet *Units: 3 ; G.E./G.R. Area: D4; Sustainability*

Chicanx and Latinx Studies Minor

Minor Requirements (15 units)

Required Courses

Take the following 6 units:

- ES 100 - Introduction to Social Justice in Communities of Color *Units: 3 ; G.E./G.R. Area: D1-3; Social Justice*
- ES 389 - Engaging Communities of Color *Units: 3*

Electives

Choose three (3) courses for 9 units from the following:

- ES 320 - The Chicano/a Movement *Units: 3 ; G.E./G.R. Area: D4*
- ES 321 - Latinas in the US *Units: 3 ; G.E./G.R. Area: C4; Diversity*
- ES 322 - Oral Traditions *Units: 3 ; G.E./G.R. Area: C4; Diversity*
- ES 323 - Latinx and Latin American Film *Units: 3 ; G.E./G.R. Area: C4; Social Justice*
- ES 324 - Latin American Immigration *Units: 3 ; G.E./G.R. Area: C4; Diversity*
- ES 325 - Cultural Production in Mexico and Mesoamerica *Units: 3 ; G.E./G.R. Area: C4; Social Justice*
- ES 326 - Peoples of Central America *Units: 3 ; G.E./G.R. Area: D4; Social Justice*
- ES 327 - Decolonize Your Diet *Units: 3 ; G.E./G.R. Area: D4; Sustainability*

Department Courses Listed by Course Type

Ethnic Studies Courses

Department of Ethnic Studies

Go to information for this department.

Courses

Ethnic Studies

- ES 100 - Introduction to Social Justice in Communities of Color *Units: 3 ; G.E./G.R. Area: D1-3; Social Justice*
- ES 120 - The People's History I *Units: 3 ; G.E./G.R. Area: US-1, US-2, US-3; Social Justice*
- ES 121 - The People's History II *Units: 3 ; G.E./G.R. Area: US-1, US-2, US-3; Social Justice*

- ES 200 - Race and Resistance *Units: 3 ; G.E./G.R. Area: C1; Diversity*
- ES 244 - Mixed Race Identities in the US *Units: 3 ; G.E./G.R. Area: D1-3; Diversity*
- ES 247 - Hip Hop Nation *Units: 3 ; G.E./G.R. Area: C1; Social Justice*
- ES 300 - Writing for Social Justice *Units: 3 ; G.E./G.R. Area: UWSR; Social Justice*
- ES 302 - Eating The Landscape *Units: 3 ; G.E./G.R. Area: C4; Sustainability*
- ES 308 - Cultures of Habitat *Units: 3 ; G.E./G.R. Area: B6; Sustainability*
- ES 322 - Oral Traditions *Units: 3 ; G.E./G.R. Area: C4; Diversity*
- ES 326 - Peoples of Central America *Units: 3 ; G.E./G.R. Area: D4; Social Justice*
- ES 389 - Engaging Communities of Color *Units: 3*
- ES 398 - Internship *Units: 1-3*
- ES 490 - Independent Study *Units: 1-4*
- ES 497 - Issues in Ethnic Studies *Units: 3*

Ethnic Studies: African American Studies

- ES 245 - Black Flix *Units: 3 ; G.E./G.R. Area: C1; Diversity*
- ES 301 - Black Feminisms *Units: 3 ; G.E./G.R. Area: D4; Diversity*
- ES 340 - Black Literature *Units: 3 ; G.E./G.R. Area: C4; Diversity*
- ES 341 - Enslavement and Resistance in the Americas *Units: 3 ; G.E./G.R. Area: D4; Diversity*
- ES 342 - James Baldwin *Units: 3 ; G.E./G.R. Area: C4; Social Justice*
- ES 343 - Black Power *Units: 3 ; G.E./G.R. Area: D4; Social Justice*
- ES 344 - Malcolm X: Third World Revolutionary *Units: 3 ; G.E./G.R. Area: D4; Social Justice*
- ES 345 - Jazz Cultures and Communities *Units: 3 ; G.E./G.R. Area: C4; Diversity*
- ES 346 - Afrofuturism *Units: 3 ; G.E./G.R. Area: C4; Diversity*
- ES 347 - Black Sexualities *Units: 3 ; G.E./G.R. Area: D4; Diversity*

Ethnic Studies: American Indian Studies

- ES 303 - Debates in Contemporary Native America *Units: 3 ; G.E./G.R. Area: C4; Diversity*
- ES 304 - American Indian Oral Literature *Units: 3 ; G.E./G.R. Area: C4; Diversity*
- ES 305 - Reel Injun: American Indians in Film *Units: 3 ; G.E./G.R. Area: D4; Social Justice*
- ES 306 - American Indian Liberation *Units: 3 ; G.E./G.R. Area: D4; Social Justice*
- ES 307 - God is Red: American Indian Worldview *Units: 3 ; G.E./G.R. Area: C4; Sustainability*

Ethnic Studies: Asian American Studies

- ES 360 - Asian American Intimacies and Families *Units: 3 ; G.E./G.R. Area: D4; Diversity*
- ES 361 - Asian Immigrant and Refugee Women in Literature and Cinema *Units: 3 ; G.E./G.R. Area: C4; Social Justice*
- ES 362 - Concentration Camps, USA *Units: 3 ; G.E./G.R. Area: D4; Social Justice*
- ES 363 - Asian American & Pacific Islander Film Festival *Units: 3 ; G.E./G.R. Area: C4; Diversity*
- ES 364 - Asian American & Pacific Islander Communities *Units: 3 ; G.E./G.R. Area: D4; Diversity*
- ES 365 - Asian American and Pacific Islander Environmental Voices *Units: 3 ; G.E./G.R. Area: C4; Social Justice*

Ethnic Studies: Genders and Sexualities in Communities of Color

- ES 380 - Queer of Color Histories, Cultures, and Identities *Units: 3 ; G.E./G.R. Area: C4; Social Justice*
- ES 381 - Racialized Masculinities *Units: 3 ; G.E./G.R. Area: D4; Diversity*
- ES 382 - Women of Color Writers: Race, Sex, and Resistance *Units: 3 ; G.E./G.R. Area: C4; Diversity*
- ES 384 - Interracial Sex and Marriage *Units: 3 ; G.E./G.R. Area: C4; Social Justice*

Ethnic Studies: Latino/a Studies

- ES 320 - The Chicano/a Movement *Units: 3 ; G.E./G.R. Area: D4*

- ES 321 - Latinas in the US *Units: 3 ; G.E./G.R. Area: C4; Diversity*
- ES 323 - Latinx and Latin American Film *Units: 3 ; G.E./G.R. Area: C4; Social Justice*
- ES 324 - Latin American Immigration *Units: 3 ; G.E./G.R. Area: C4; Diversity*
- ES 325 - Cultural Production in Mexico and Mesoamerica *Units: 3 ; G.E./G.R. Area: C4; Social Justice*
- ES 327 - Decolonize Your Diet *Units: 3 ; G.E./G.R. Area: D4; Sustainability*

Genders and Sexualities in Communities of Color Minor

Minor Requirements (15 units)

Required Courses

Take the following 6 units:

- ES 100 - Introduction to Social Justice in Communities of Color *Units: 3 ; G.E./G.R. Area: D1-3; Social Justice*
- ES 389 - Engaging Communities of Color *Units: 3*

Electives

Choose three (3) courses for 9 units from the following:

- ES 301 - Black Feminisms *Units: 3 ; G.E./G.R. Area: D4; Diversity*
- ES 321 - Latinas in the US *Units: 3 ; G.E./G.R. Area: C4; Diversity*
- ES 342 - James Baldwin *Units: 3 ; G.E./G.R. Area: C4; Social Justice*
- ES 347 - Black Sexualities *Units: 3 ; G.E./G.R. Area: D4; Diversity*
- ES 360 - Asian American Intimacies and Families *Units: 3 ; G.E./G.R. Area: D4; Diversity*
- ES 361 - Asian Immigrant and Refugee Women in Literature and Cinema *Units: 3 ; G.E./G.R. Area: C4; Social Justice*
- ES 380 - Queer of Color Histories, Cultures, and Identities *Units: 3 ; G.E./G.R. Area: C4; Social Justice*
- ES 381 - Racialized Masculinities *Units: 3 ; G.E./G.R. Area: D4; Diversity*
- ES 382 - Women of Color Writers: Race, Sex, and Resistance *Units: 3 ; G.E./G.R. Area: C4; Diversity*
- ES 384 - Interracial Sex and Marriage *Units: 3 ; G.E./G.R. Area: C4; Social Justice*

Department Courses Listed by Course Type

Ethnic Studies Courses

Department of Ethnic Studies

Go to information for this department.

Courses

Ethnic Studies

- ES 100 - Introduction to Social Justice in Communities of Color *Units: 3 ; G.E./G.R. Area: D1-3; Social Justice*
- ES 120 - The People's History I *Units: 3 ; G.E./G.R. Area: US-1, US-2, US-3; Social Justice*
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- ES 200 - Race and Resistance *Units: 3 ; G.E./G.R. Area: C1; Diversity*
- ES 244 - Mixed Race Identities in the US *Units: 3 ; G.E./G.R. Area: D1-3; Diversity*
- ES 247 - Hip Hop Nation *Units: 3 ; G.E./G.R. Area: C1; Social Justice*
- ES 300 - Writing for Social Justice *Units: 3 ; G.E./G.R. Area: UWSR; Social Justice*
- ES 302 - Eating The Landscape *Units: 3 ; G.E./G.R. Area: C4; Sustainability*
- ES 308 - Cultures of Habitat *Units: 3 ; G.E./G.R. Area: B6; Sustainability*
- ES 322 - Oral Traditions *Units: 3 ; G.E./G.R. Area: C4; Diversity*
- ES 326 - Peoples of Central America *Units: 3 ; G.E./G.R. Area: D4; Social Justice*
- ES 389 - Engaging Communities of Color *Units: 3*
- ES 398 - Internship *Units: 1-3*
- ES 490 - Independent Study *Units: 1-4*
- ES 497 - Issues in Ethnic Studies *Units: 3*

Ethnic Studies: African American Studies

- ES 245 - Black Flix *Units: 3 ; G.E./G.R. Area: C1; Diversity*
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Ethnic Studies: American Indian Studies

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Ethnic Studies: Asian American Studies

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Ethnic Studies: Genders and Sexualities in Communities of Color

- • ES 380 - Queer of Color Histories, Cultures, and Identities *Units: 3 ; G.E./G.R. Area: C4; Social Justice*
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- • ES 384 - Interracial Sex and Marriage *Units: 3 ; G.E./G.R. Area: C4; Social Justice*

Ethnic Studies: Latino/a Studies

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- • ES 325 - Cultural Production in Mexico and Mesoamerica *Units: 3 ; G.E./G.R. Area: C4; Social Justice*
- • ES 327 - Decolonize Your Diet *Units: 3 ; G.E./G.R. Area: D4; Sustainability*

Programs of Study by Department (H-Z)

Academic Course of Study

Cal State East Bay offers a vigorous academic course of study with a real-world curriculum to prepare students for a lifetime of personal achievement and career success.

The program links below contain program descriptions, outcomes, career opportunities, program requirements, course names, numbers, descriptions, and degree, minor, credential, and certificate requirements.

Department of Health Sciences

The Department Office is located on the 5th Floor of the Student and Faculty Support (SF) building, Room 502.

Open 8:00 a.m. - 5:00 p.m., Monday - Friday.

Dept. Phone: (510) 885-3481

Faculty

Professor

Oscar Wambuguh, Ph.D. University of California, Berkeley

Associate Professor

Chandrakala Ganesh, Ph.D. Pennsylvania State University

Assistant Professors

Alina Engelman, Dr.P.H. University of California, Berkeley

Ryan Gamba, Ph.D. University of California, Berkeley

Andrew Kelly, Ph.D. Northwestern University

Nidhi Khosla, Ph.D. Johns Hopkins University

Juleen Lam, Ph.D. Johns Hopkins University

Matthew Moore, M.P.H. Tufts University; J.D. Northeastern University, School of Law

Arnab Mukherjea, Dr.P.H. University of California, Berkeley

Michael Schmeltz, Ph.D. City University of New York, Graduate Center

Jason Smith (Chair), M.T.S., Harvard University, School of Divinity; J.D., Northeastern University, School of Law

Michael Stanton, Ph.D. Duke University

Department Statement

The Health Sciences degree program is the second largest and the fastest growing program at CSUEB. It is an applied science that focuses on knowledge and skills necessary to practice in both clinical and population health settings. Students in our Health Sciences program prepare for careers in healthcare administration and policy, public health or prepare for further training in technical or professional clinical programs. Health sciences is an interdisciplinary field that focuses on the application of physical, biological, and social sciences to understand and to improve health in human beings.

Healthcare as an industry is anticipated to become one of the largest employers in the United States in the next ten years with healthcare support and technical occupations being two fastest growing labor groups. There are hundreds of job opportunities and areas of practice in this field. A degree in Health Sciences from CSUEB provides the foundation graduates need to participate in this exciting and growing field.

Mission

Working together to improve the health of the San Francisco Bay Area, California, and beyond through teaching, research, and service.

Vision

We work for a future where:

The students of the Health Sciences program at CSU East Bay are committed to tackling the health challenges facing the communities of the East Bay and California, to eliminating health disparities, and to creating climate-change resilient communities. The program students are change agents driving improvements in health across the East Bay.

The Health Sciences program emphasizes health policy, public health and environmental health. Rooted in principles of solidarity, health equity, and social justice, the program values an interdisciplinary approach that emphasizes teamwork, problem solving, adaptability, ethics and strong evidence-based practice.

The Health Sciences program is an active and integral part of CSU and the East Bay communities with strong relationships to community organizations, hospitals, medical centers, and health departments. The program is a leader in the institutional focus of CSU East Bay on health and health-related programs and is a critical part of the mission of CSU East Bay. It is nationally-recognized for its innovations in pedagogy and curriculum, and its faculty are active in their respective fields of research with work appearing in a wide range of publications.

The Health Sciences alumni are leaders and pioneers in their fields and work across all sectors in health and public health. They are adaptable to the changing demands of their fields and are lifelong learners. They take pride in their alma mater and are active donors and volunteers to the program, helping to build a resilient program that is a key part of the health of the East Bay and California.

About the Department

Use our university website link to learn more about what the Health Sciences Department has to offer.

- Advising
- Check Sheets
- Roadmaps
- Internships
- And more . . .

Bachelor

Health Sciences, B.S.

Health Sciences, B.S. Program (120 units)

Program Description

Health Sciences is an interdisciplinary field that focuses on the application of physical, biological, and social sciences to understand and to improve health in human beings. It is an applied science that focuses on knowledge necessary to practice in both clinical and population health settings.

Our program helps students to understand health at the individual level, the community level and the population level. In addition to the biomedical model of health, we ask students to think critically and to explore health from a variety of perspectives and to understand the role that culture has in constructing health.

The program also emphasizes problem-based learning. Our goal is to help students develop strong critical thinking skills, team work, and strong problem-solving skills rooted in a population perspective.

Our program emphasizes the environmental factors that impact human health. The effects of climate change have an immediate and long-term effect on human health and the communities of California. Our program focuses on helping students develop the skills to face some of these health challenges.

The BS in Health Sciences without a concentration is designed to prepare students to enter directly into careers in health care or to enter into post-graduate professional programs such as medicine, physician assistant, occupational therapy, nursing, radiation technician, and other clinical fields.

The program also offers concentrations in Health Policy and in Public Health.

Career Opportunities

The health care field is the second largest industry in the United States and employs millions of workers. The demand for highly trained health care workers is high.

There are a number of career opportunities working in health sciences. There is a high demand for workers in clinical fields such as medicine, nursing, occupational therapy, physical therapy, laboratory technology, and other clinical fields.

In addition to clinical fields, there are opportunities in research, technology, administration, finance, pharmaceuticals, and environmental protection and sanitation. There are many career opportunities in fields such as public health and health policy as well.

Program Learning Outcomes

Students graduating with a BS in Health Sciences will be able to:

1. Use knowledge and skills to provide effective, necessary, and appropriate health services and public health interventions in diverse and multicultural communities.
2. Work effectively on a team in health and health care.
3. Act ethically and responsibly.
4. Use critical thinking, knowledge, and expertise to address complex challenges in health and health care.
5. Apply population perspectives in the health professions
6. Apply knowledge of the role of the environment and of climate change in human health in ways that improve population health and sustainability

Degree Requirements Unit-Outline

- A baccalaureate of arts degree requires a total of 120 units:
 - The major requirements consists of 76-79 units;
 - General Education & Graduation Requirements consists of 57 units (*up to 9 units may be double-counted - see your advisor to determine which, if any, GE/GR units can be double-counted for your program plan*);
 - Free Electives that remain = 0 units (*actual # of free elective units may depend on GE units*).

Health Sciences Major Requirements (76-79 units)

Note: All courses for degree credit with a HSC prefix must be completed with a C or better.

Lower Division Core

The following lower-division interdisciplinary coursework for 25 units are required:

- BIOL 230 - Introduction to Clinical Microbiology Units: 4 ; G.E./G.R. Area: B2, B3
- ENSC 280 - Humans and the Environment in California Units: 3 ; G.E./G.R. Area: B1; Sustainability
- STAT 100 - Elements of Statistics and Probability Units: 3 ; G.E./G.R. Area: B4
- POSC 101 - American Political Institutions Units: 3 ; G.E./G.R. Area: D1-3; US-1, US-2
- HSC 100 - First Year Seminar in Health Sciences Units: 3
- HSC 110 - Introduction to Health Systems & Social Determinants of Health Units: 3
- HSC 130 - Health Humanities Units: 3 ; G.E./G.R. Area: C2
- HSC 250 - Health Disparities and Health Equity Units: 3 ; G.E./G.R. Area: Diversity

Upper Division Core

The following 18 units of Health Science coursework is required: *** Please see the Errata chapter in this catalog for information concerning the Upper Division Core.**

- HSC 300 - Environmental Health Units: 3 ; G.E./G.R. Area: B6; Sustainability

- HSC 315 - Public Health *Units: 3*
- HSC 330 - Epidemiology *Units: 3*
- HSC 355 - Bioethics *Units: 3*
- HSC 360 - Health Law *Units: 3*
- HSC 400 - Health Policy Research and Analysis *Units: 3*

Concentrations

Students may choose one of the following concentrations for 33 units to complete their program plan. Students not selecting to complete a concentration must take an additional 30 units of electives.

- Health Sciences, B.S. (elective coursework)
- Health Sciences, B.S.: Health Policy Concentration
- Health Sciences, B.S.: Public Health Concentration

Capstone Requirement

One (1) of the following capstones is required based on your program plan.

Students Not Selecting a Concentration

Take:

- HSC 499A - Capstone in Health Sciences *Units: 3*

Public Health Concentration Students

Take:

- HSC 499B - Capstone in Public Health Interventions *Units: 3*

Health Policy and Administration Concentration Students

Take:

- HSC 499C - Capstone in Health Policy *Units: 3*

Elective Courses for Students Not Selecting a Concentration

Students who do not select a concentration must select an additional 30 units in consultation with an advisor. These electives must be chosen as part of a course plan designed in consultation with an advisor to achieve a student's learning goals. The course plan must be approved and filed before taking elective courses. Students may review courses to construct a plan by using the Course Description link in the catalog. All Health Sciences courses have an HSC prefix.

Note: Once a plan is approved, students should not deviate from the plan without meeting with an advisor. Credit taken off plan may not be approved.

** Please see the Errata chapter in this catalog for information concerning this section.*

Other Undergraduate Degree Requirements

In addition to major requirements, every student must also complete the University's baccalaureate requirements for graduation, which are described in the Requirements, Exams & Testing chapter of this catalog.

Department Courses Listed by Course Type

Health Sciences Courses

Department of Health Sciences

Go to information for this department.

Courses

Health Sciences

- HSC 100 - First Year Seminar in Health Sciences *Units: 3*
- HSC 110 - Introduction to Health Systems & Social Determinants of Health *Units: 3*
- HSC 115 - Human Health and Wellness *Units: 3*
- HSC 130 - Health Humanities *Units: 3 ; G.E./G.R. Area: C2*
- HSC 250 - Health Disparities and Health Equity *Units: 3 ; G.E./G.R. Area: Diversity*
- HSC 270 - Investigating Disease Outbreaks and Epidemics *Units: 3 ; G.E./G.R. Area: C2; Social Justice*
- HSC 300 - Environmental Health *Units: 3 ; G.E./G.R. Area: B6; Sustainability*
- HSC 310 - Community Engaged Health Promotion *Units: 3*
- HSC 315 - Public Health *Units: 3*
- HSC 323 - Plagues, Peoples, and Populations *Units: 3*
- HSC 325 - Health Care Payment Systems *Units: 3*
- HSC 327 - Genes and Human Health *Units: 3 ; G.E./G.R. Area: B6*
- HSC 330 - Epidemiology *Units: 3*
- HSC 335 - Pharmaceutical, Biotechnology and Medical Device Policy *Units: 3*
- HSC 340 - Climate Change and Public Health *Units: 3*
- HSC 345 - Aging and Long Term Care *Units: 3*
- HSC 350 - Health Behavior and Health Education Theory *Units: 3*
- HSC 355 - Bioethics *Units: 3*
- HSC 360 - Health Law *Units: 3*
- HSC 362 - Environmental Health Policy *Units: 3 ; G.E./G.R. Area: D4*
- HSC 365 - Mental Health and Policy *Units: 3*
- HSC 370 - Health Economics and Public Policy *Units: 3*
- HSC 375 - Program Planning and Evaluation *Units: 3*
- HSC 380 - Health Regulation *Units: 3*
- HSC 385 - Vector Control *Units: 3*
- HSC 390 - Lesbian, Gay, Bisexual and Transgender (LGBT) Communities and Health *Units: 3 ; G.E./G.R. Area: C4*
- HSC 398 - Internship *Units: 1-3*
- HSC 400 - Health Policy Research and Analysis *Units: 3*
- HSC 405 - Toxicology *Units: 3*
- HSC 410 - Qualitative Methods in the Health Sciences *Units: 3*
- HSC 420 - Occupational Health *Units: 3*
- HSC 423 - Homelessness, Urban Poverty, and Health *Units: 3*

- HSC 435 - Life Course Perspective on Health *Units: 3 ; G.E./G.R. Area: B6*
- HSC 440 - Global Health and Disability *Units: 3 ; G.E./G.R. Area: D4; Social Justice*
- HSC 445 - HIV/AIDS in a Global Context *Units: 3*
- HSC 450 - Health Communication *Units: 3*
- HSC 455 - Management and Employment Issues in the Health Professions *Units: 3*
- HSC 460 - Emergency Preparedness and Response *Units: 3*
- HSC 465 - Health Data and Information Management *Units: 3*
- HSC 470 - Health and The Built Environment *Units: 3*
- HSC 480 - State and Local Health Systems *Units: 3*
- HSC 485 - Applications of Research Methods in Health Sciences *Units: 3*
- HSC 490 - Independent Study *Units: 1-4*
- HSC 497 - Issues in Health Sciences *Units: 3*
- HSC 499A - Capstone in Health Sciences *Units: 3*
- HSC 499B - Capstone in Public Health Interventions *Units: 3*
- HSC 499C - Capstone in Health Policy *Units: 3*

Health Sciences, B.S.: Health Policy Concentration

Health Sciences, B.S. Program (120 units)

Program Description

Health Sciences is an interdisciplinary field that focuses on the application of physical, biological, and social sciences to understand and to improve health in human beings. It is an applied science that focuses on knowledge necessary to practice in both clinical and population health settings.

Our program helps students to understand health at the individual level, the community level and the population level. In addition to the biomedical model of health, we ask students to think critically and to explore health from a variety of perspectives and to understand the role that culture has in constructing health.

The program also emphasizes problem-based learning. Our goal is to help students develop strong critical thinking skills, team work, and strong problem-solving skills rooted in a population perspective.

Our program emphasizes the environmental factors that impact human health. The effects of climate change have an immediate and long-term effect on human health and the communities of California. Our program focuses on helping students develop the skills to face some of these health challenges.

The BS in Health Sciences without a concentration is designed to prepare students to enter directly into careers in health care or to enter into post-graduate professional programs such as medicine, physician assistant, occupational therapy, nursing, radiation technician, and other clinical fields.

The program also offers concentrations in Health Policy and in Public Health.

Career Opportunities

The health care field is the second largest industry in the United States and employs millions of workers. The demand for highly trained health care workers is high.

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Program Learning Outcomes

Students graduating with a BS in Health Sciences will be able to:

1. Use knowledge and skills to provide effective, necessary, and appropriate health services and public health interventions in diverse and multicultural communities.
2. Work effectively on a team in health and health care.
3. Act ethically and responsibly.
4. Use critical thinking, knowledge, and expertise to address complex challenges in health and health care.
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- A baccalaureate of arts degree requires a total of 120 units:
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 - General Education & Graduation Requirements consists of 57 units (*up to 9 units may be double-counted - see your advisor to determine which, if any, GE/GR units can be double-counted for your program plan*);
 - Free Electives that remain = 0 units (*actual # of free elective units may depend on GE units*).

Health Sciences Major Requirements (76-79 units)

Note: All courses for degree credit with a HSC prefix must be completed with a C or better.

Lower Division Core

The following lower-division interdisciplinary coursework for 25 units are required:

- BIOL 230 - Introduction to Clinical Microbiology Units: 4 ; G.E./G.R. Area: B2, B3
- ENSC 280 - Humans and the Environment in California Units: 3 ; G.E./G.R. Area: B1; Sustainability
- STAT 100 - Elements of Statistics and Probability Units: 3 ; G.E./G.R. Area: B4
- POSC 101 - American Political Institutions Units: 3 ; G.E./G.R. Area: D1-3; US-1, US-2
- HSC 100 - First Year Seminar in Health Sciences Units: 3
- HSC 110 - Introduction to Health Systems & Social Determinants of Health Units: 3
- HSC 130 - Health Humanities Units: 3 ; G.E./G.R. Area: C2

- HSC 250 - Health Disparities and Health Equity *Units: 3 ; G.E./G.R. Area: Diversity*

Upper Division Core

The following 18 units of Health Science coursework is required: *** Please see the Errata chapter in this catalog for information concerning the Upper Division Core.**

- HSC 300 - Environmental Health *Units: 3 ; G.E./G.R. Area: B6; Sustainability*
- HSC 315 - Public Health *Units: 3*
- HSC 330 - Epidemiology *Units: 3*
- HSC 355 - Bioethics *Units: 3*
- HSC 360 - Health Law *Units: 3*
- HSC 400 - Health Policy Research and Analysis *Units: 3*

Concentrations

Students may choose one of the following concentrations for 33 units to complete their program plan. Students not selecting to complete a concentration must take an additional 30 units of electives.

- Health Sciences, B.S. (elective coursework)
- Health Sciences, B.S.: Health Policy Concentration
- Health Sciences, B.S.: Public Health Concentration

Capstone Requirement

One (1) of the following capstones is required based on your program plan.

Students Not Selecting a Concentration

Take:

- HSC 499A - Capstone in Health Sciences *Units: 3*

Public Health Concentration Students

Take:

- HSC 499B - Capstone in Public Health Interventions *Units: 3*

Health Policy and Administration Concentration Students

Take:

- HSC 499C - Capstone in Health Policy *Units: 3*

Health Policy Concentration

Public policy is increasingly central to society's efforts to promote and protect human health, both at the individual level and at the population level. As the regulations, statutes, and court rulings that affect public health, the environment, and health care systems become more and more complex, the need for health policy professionals has never been higher.

The Concentration in Health Policy in the Bachelor of Science Degree Program is designed to provide students with a solid grounding in policy theory, policy development, the policymaking process, policy

enforcement and policy evaluation. Students are trained in policy processes that occur at all jurisdictional levels, ranging from local communities, to the state, national, and international levels, and will become familiar with the range of stakeholders and institutions influencing health policy.

The program emphasizes teamwork, critical thinking, and problem solving skills. Upon successful completion of the Concentration requirements, graduates will be competent as professionals to recommend evidence-based solutions to problems related to public programs, policies and procedures related to health.

Required Coursework

The following 27 units are required:

- ECON 200 - Principles of Microeconomics *Units: 3 ; G.E./G.R. Area: D1-3; Social Justice*
- ECON 370 - Health Economics and Public Policy *Units: 3*
- HSC 325 - Health Care Payment Systems *Units: 3*
- HSC 380 - Health Regulation *Units: 3*
- HSC 450 - Health Communication *Units: 3*
- HSC 455 - Management and Employment Issues in the Health Professions *Units: 3*
- HSC 465 - Health Data and Information Management *Units: 3*
- HSC 480 - State and Local Health Systems *Units: 3*
- HSC 497 - Issues in Health Sciences *Units: 3*

Elective Courses

Students in the Health Policy concentration must take a minimum of 6 units from the following courses:

- HSC 115 - Human Health and Wellness *Units: 3*
- HSC 270 - Investigating Disease Outbreaks and Epidemics *Units: 3 ; G.E./G.R. Area: C2; Social Justice*
- HSC 310 - Community Engaged Health Promotion *Units: 3*
- HSC 323 - Plagues, Peoples, and Populations *Units: 3*
- HSC 327 - Genes and Human Health *Units: 3 ; G.E./G.R. Area: B6*
- HSC 335 - Pharmaceutical, Biotechnology and Medical Device Policy *Units: 3*
- HSC 340 - Climate Change and Public Health *Units: 3*
- HSC 345 - Aging and Long Term Care *Units: 3*
- HSC 350 - Health Behavior and Health Education Theory *Units: 3*
- HSC 365 - Mental Health and Policy *Units: 3*
- HSC 375 - Program Planning and Evaluation *Units: 3*
- HSC 385 - Vector Control *Units: 3*
- HSC 390 - Lesbian, Gay, Bisexual and Transgender (LGBT) Communities and Health *Units: 3 ; G.E./G.R. Area: C4*
- HSC 405 - Toxicology *Units: 3*

- HSC 410 - Qualitative Methods in the Health Sciences *Units: 3*
- HSC 420 - Occupational Health *Units: 3*
- HSC 423 - Homelessness, Urban Poverty, and Health *Units: 3*
- HSC 435 - Life Course Perspective on Health *Units: 3 ; G.E./G.R. Area: B6*
- HSC 440 - Global Health and Disability *Units: 3 ; G.E./G.R. Area: D4; Social Justice*
- HSC 445 - HIV/AIDS in a Global Context *Units: 3*
- HSC 460 - Emergency Preparedness and Response *Units: 3*
- HSC 470 - Health and The Built Environment *Units: 3*
- HSC 485 - Applications of Research Methods in Health Sciences *Units: 3*

Other Undergraduate Degree Requirements

In addition to major requirements, every student must also complete the University's baccalaureate requirements for graduation, which are described in the Requirements, Exams & Testing chapter of this catalog.

Department Courses Listed by Course Type

Health Sciences Courses

Department of Health Sciences

Go to information for this department.

Courses

Health Sciences

- HSC 100 - First Year Seminar in Health Sciences *Units: 3*
- HSC 110 - Introduction to Health Systems & Social Determinants of Health *Units: 3*
- HSC 115 - Human Health and Wellness *Units: 3*
- HSC 130 - Health Humanities *Units: 3 ; G.E./G.R. Area: C2*
- HSC 250 - Health Disparities and Health Equity *Units: 3 ; G.E./G.R. Area: Diversity*
- HSC 270 - Investigating Disease Outbreaks and Epidemics *Units: 3 ; G.E./G.R. Area: C2; Social Justice*
- HSC 300 - Environmental Health *Units: 3 ; G.E./G.R. Area: B6; Sustainability*
- HSC 310 - Community Engaged Health Promotion *Units: 3*
- HSC 315 - Public Health *Units: 3*
- HSC 323 - Plagues, Peoples, and Populations *Units: 3*
- HSC 325 - Health Care Payment Systems *Units: 3*
- HSC 327 - Genes and Human Health *Units: 3 ; G.E./G.R. Area: B6*
- HSC 330 - Epidemiology *Units: 3*
- HSC 335 - Pharmaceutical, Biotechnology and Medical Device Policy *Units: 3*
- HSC 340 - Climate Change and Public Health *Units: 3*
- HSC 345 - Aging and Long Term Care *Units: 3*
- HSC 350 - Health Behavior and Health Education Theory *Units: 3*
- HSC 355 - Bioethics *Units: 3*

- • HSC 360 - Health Law *Units: 3*
- • HSC 362 - Environmental Health Policy *Units: 3 ; G.E./G.R. Area: D4*
- • HSC 365 - Mental Health and Policy *Units: 3*
- • HSC 370 - Health Economics and Public Policy *Units: 3*
- • HSC 375 - Program Planning and Evaluation *Units: 3*
- • HSC 380 - Health Regulation *Units: 3*
- • HSC 385 - Vector Control *Units: 3*
- • HSC 390 - Lesbian, Gay, Bisexual and Transgender (LGBT) Communities and Health *Units: 3 ; G.E./G.R. Area: C4*
- • HSC 398 - Internship *Units: 1-3*
- • HSC 400 - Health Policy Research and Analysis *Units: 3*
- • HSC 405 - Toxicology *Units: 3*
- • HSC 410 - Qualitative Methods in the Health Sciences *Units: 3*
- • HSC 420 - Occupational Health *Units: 3*
- • HSC 423 - Homelessness, Urban Poverty, and Health *Units: 3*
- • HSC 435 - Life Course Perspective on Health *Units: 3 ; G.E./G.R. Area: B6*
- • HSC 440 - Global Health and Disability *Units: 3 ; G.E./G.R. Area: D4; Social Justice*
- • HSC 445 - HIV/AIDS in a Global Context *Units: 3*
- • HSC 450 - Health Communication *Units: 3*
- • HSC 455 - Management and Employment Issues in the Health Professions *Units: 3*
- • HSC 460 - Emergency Preparedness and Response *Units: 3*
- • HSC 465 - Health Data and Information Management *Units: 3*
- • HSC 470 - Health and The Built Environment *Units: 3*
- • HSC 480 - State and Local Health Systems *Units: 3*
- • HSC 485 - Applications of Research Methods in Health Sciences *Units: 3*
- • HSC 490 - Independent Study *Units: 1-4*
- • HSC 497 - Issues in Health Sciences *Units: 3*
- • HSC 499A - Capstone in Health Sciences *Units: 3*
- • HSC 499B - Capstone in Public Health Interventions *Units: 3*
- • HSC 499C - Capstone in Health Policy *Units: 3*

Health Sciences, B.S.: Public Health Concentration

Health Sciences, B.S. Program (120 units)

Program Description

Health Sciences is an interdisciplinary field that focuses on the application of physical, biological, and social sciences to understand and to improve health in human beings. It is an applied science that focuses on knowledge necessary to practice in both clinical and population health settings.

Our program helps students to understand health at the individual level, the community level and the population level. In addition to the biomedical model of health, we ask students to think critically and to explore health from a variety of perspectives and to understand the role that culture has in constructing health.

The program also emphasizes problem-based learning. Our goal is to help students develop strong critical thinking skills, team work, and strong problem-solving skills rooted in a population perspective.

Our program emphasizes the environmental factors that impact human health. The effects of climate change have an immediate and long-term effect on human health and the communities of California. Our program focuses on helping students develop the skills to face some of these health challenges.

The BS in Health Sciences without a concentration is designed to prepare students to enter directly into careers in health care or to enter into post-graduate professional programs such as medicine, physician assistant, occupational therapy, nursing, radiation technician, and other clinical fields.

The program also offers concentrations in Health Policy and in Public Health.

Career Opportunities

The health care field is the second largest industry in the United States and employs millions of workers. The demand for highly trained health care workers is high.

There are a number of career opportunities working in health sciences. There is a high demand for workers in clinical fields such as medicine, nursing, occupational therapy, physical therapy, laboratory technology, and other clinical fields.

In addition to clinical fields, there are opportunities in research, technology, administration, finance, pharmaceuticals, and environmental protection and sanitation. There are many career opportunities in fields such as public health and health policy as well.

Program Learning Outcomes

Students graduating with a BS in Health Sciences will be able to:

1. Use knowledge and skills to provide effective, necessary, and appropriate health services and public health interventions in diverse and multicultural communities.
2. Work effectively on a team in health and health care.
3. Act ethically and responsibly.
4. Use critical thinking, knowledge, and expertise to address complex challenges in health and health care.
5. Apply population perspectives in the health professions
6. Apply knowledge of the role of the environment and of climate change in human health in ways that improve population health and sustainability

Degree Requirements Unit-Outline

- A baccalaureate of arts degree requires a total of 120 units:
 - The major requirements consists of 76-79 units;
 - General Education & Graduation Requirements consists of 57 units (*up to 9 units may be double-counted - see your advisor to determine which, if any, GE/GR units can be double-counted for your program plan*);
 - Free Electives that remain = 0 units (*actual # of free elective units may depend on GE units*).

Health Sciences Major Requirements (76-79 units)

Note: All courses for degree credit with a HSC prefix must be completed with a C or better.

Lower Division Core

The following lower-division interdisciplinary coursework for 25 units are required:

- BIOL 230 - Introduction to Clinical Microbiology *Units: 4 ; G.E./G.R. Area: B2, B3*
- ENSC 280 - Humans and the Environment in California *Units: 3 ; G.E./G.R. Area: B1; Sustainability*
- STAT 100 - Elements of Statistics and Probability *Units: 3 ; G.E./G.R. Area: B4*
- POSC 101 - American Political Institutions *Units: 3 ; G.E./G.R. Area: D1-3; US-1, US-2*
- HSC 100 - First Year Seminar in Health Sciences *Units: 3*
- HSC 110 - Introduction to Health Systems & Social Determinants of Health *Units: 3*
- HSC 130 - Health Humanities *Units: 3 ; G.E./G.R. Area: C2*
- HSC 250 - Health Disparities and Health Equity *Units: 3 ; G.E./G.R. Area: Diversity*

Upper Division Core

The following 18 units of Health Science coursework is required: *** Please see the Errata chapter in this catalog for information concerning the Upper Division Core.**

- HSC 300 - Environmental Health *Units: 3 ; G.E./G.R. Area: B6; Sustainability*
- HSC 315 - Public Health *Units: 3*
- HSC 330 - Epidemiology *Units: 3*
- HSC 355 - Bioethics *Units: 3*
- HSC 360 - Health Law *Units: 3*
- HSC 400 - Health Policy Research and Analysis *Units: 3*

Concentrations

Students may choose one of the following concentrations for 33 units to complete their program plan. Students not selecting to complete a concentration must take an additional 30 units of electives.

- Health Sciences, B.S. (elective coursework)
- Health Sciences, B.S.: Health Policy Concentration
- Health Sciences, B.S.: Public Health Concentration

Capstone Requirement

One (1) of the following capstones is required based on your program plan.

Students Not Selecting a Concentration

Take:

- HSC 499A - Capstone in Health Sciences *Units: 3*

Public Health Concentration Students

Take:

- HSC 499B - Capstone in Public Health Interventions *Units: 3*

Health Policy and Administration Concentration Students

Take:

- **HSC 499C - Capstone in Health Policy** *Units: 3*

Public Health Concentration

Public health promotes and protects the health of people and the communities where they live, learn, work and play. (APHA). Public health works to track disease outbreaks, prevent injuries, and shed light on why some populations and communities are more likely to suffer from poor health than others. Public health professions work collaboratively and across disciplines to assure the conditions in which people can be healthy.

The Concentration in Public Health in the Bachelor of Science Degree Program aims to prepare qualified, diverse, and committed graduates qualified to understand and address complex public health challenges, locally, nationally, and globally. Upon successful completion of Concentration requirements, graduates will be able to:

1. Define public health and related roles and responsibilities of government, non-government agencies, and private organizations.
2. Evaluate the source and quality of health information, research, data, or public health interventions, which assess and/or address the well-being of a population, as they relate to individual and community health.
3. Analyze the magnitude of health concerns faced by vulnerable and at-risk communities accounting for the role of gender, race, ethnicity, social determinants, and other dynamic influences affecting population health.
4. Assess the role of community engagement in promoting population health and social justice by discussing public health interventions and the values and perspectives of diverse individuals, communities, and cultures and their influence on health behaviors and practices.

Required Courses

The following 21 units of coursework is required:

- **ECON 200 - Principles of Microeconomics** *Units: 3 ; G.E./G.R. Area: D1-3; Social Justice*
- **ECON 370 - Health Economics and Public Policy** *Units: 3*
- **HSC 310 - Community Engaged Health Promotion** *Units: 3*
- **HSC 350 - Health Behavior and Health Education Theory** *Units: 3*
- **HSC 375 - Program Planning and Evaluation** *Units: 3*
- **HSC 410 - Qualitative Methods in the Health Sciences** *Units: 3*
- **HSC 450 - Health Communication** *Units: 3*

Elective Courses

12 units of electives are required. Choose in each of the following groups:

Human Health and Disease Elective Group

Students should choose one (1) course for 3 units from the following:

- **HSC 115 - Human Health and Wellness** *Units: 3*

- HSC 270 - Investigating Disease Outbreaks and Epidemics *Units: 3 ; G.E./G.R. Area: C2; Social Justice*
- HSC 327 - Genes and Human Health *Units: 3 ; G.E./G.R. Area: B6*
- HSC 385 - Vector Control *Units: 3*
- HSC 405 - Toxicology *Units: 3*

Experiential Electives Group

Students must select one (1) course for 3 units from the following:

- HSC 423 - Homelessness, Urban Poverty, and Health *Units: 3*
- HSC 440 - Global Health and Disability *Units: 3 ; G.E./G.R. Area: D4; Social Justice*
- HSC 460 - Emergency Preparedness and Response *Units: 3*

General Electives Group

Students must take an additional 6 units from the following courses. Courses not already taken in the other elective groups may be taken as part of the General Elective units:

- HSC 323 - Plagues, Peoples, and Populations *Units: 3*
- HSC 325 - Health Care Payment Systems *Units: 3*
- HSC 335 - Pharmaceutical, Biotechnology and Medical Device Policy *Units: 3*
- HSC 340 - Climate Change and Public Health *Units: 3*
- HSC 345 - Aging and Long Term Care *Units: 3*
- HSC 365 - Mental Health and Policy *Units: 3*
- HSC 375 - Program Planning and Evaluation *Units: 3*
- HSC 380 - Health Regulation *Units: 3*
- HSC 390 - Lesbian, Gay, Bisexual and Transgender (LGBT) Communities and Health *Units: 3 ; G.E./G.R. Area: C4*
- HSC 410 - Qualitative Methods in the Health Sciences *Units: 3*
- HSC 420 - Occupational Health *Units: 3*
- HSC 435 - Life Course Perspective on Health *Units: 3 ; G.E./G.R. Area: B6*
- HSC 445 - HIV/AIDS in a Global Context *Units: 3*
- HSC 465 - Health Data and Information Management *Units: 3*
- HSC 470 - Health and The Built Environment *Units: 3*
- HSC 480 - State and Local Health Systems *Units: 3*
- HSC 485 - Applications of Research Methods in Health Sciences *Units: 3*
- HSC 497 - Issues in Health Sciences *Units: 3*

Other Undergraduate Degree Requirements

In addition to major requirements, every student must also complete the University's baccalaureate requirements for graduation, which are described in the Requirements, Exams & Testing chapter of this catalog.

Department Courses Listed by Course Type

Health Sciences Courses

Department of Health Sciences

Go to information for this department.

Courses

Health Sciences

- HSC 100 - First Year Seminar in Health Sciences *Units: 3*
- HSC 110 - Introduction to Health Systems & Social Determinants of Health *Units: 3*
- HSC 115 - Human Health and Wellness *Units: 3*
- HSC 130 - Health Humanities *Units: 3 ; G.E./G.R. Area: C2*
- HSC 250 - Health Disparities and Health Equity *Units: 3 ; G.E./G.R. Area: Diversity*
- HSC 270 - Investigating Disease Outbreaks and Epidemics *Units: 3 ; G.E./G.R. Area: C2; Social*

Justice

- HSC 300 - Environmental Health *Units: 3 ; G.E./G.R. Area: B6; Sustainability*
- HSC 310 - Community Engaged Health Promotion *Units: 3*
- HSC 315 - Public Health *Units: 3*
- HSC 323 - Plagues, Peoples, and Populations *Units: 3*
- HSC 325 - Health Care Payment Systems *Units: 3*
- HSC 327 - Genes and Human Health *Units: 3 ; G.E./G.R. Area: B6*
- HSC 330 - Epidemiology *Units: 3*
- HSC 335 - Pharmaceutical, Biotechnology and Medical Device Policy *Units: 3*
- HSC 340 - Climate Change and Public Health *Units: 3*
- HSC 345 - Aging and Long Term Care *Units: 3*
- HSC 350 - Health Behavior and Health Education Theory *Units: 3*
- HSC 355 - Bioethics *Units: 3*
- HSC 360 - Health Law *Units: 3*
- HSC 362 - Environmental Health Policy *Units: 3 ; G.E./G.R. Area: D4*
- HSC 365 - Mental Health and Policy *Units: 3*
- HSC 370 - Health Economics and Public Policy *Units: 3*
- HSC 375 - Program Planning and Evaluation *Units: 3*
- HSC 380 - Health Regulation *Units: 3*
- HSC 385 - Vector Control *Units: 3*
- HSC 390 - Lesbian, Gay, Bisexual and Transgender (LGBT) Communities and Health *Units: 3 ;*

G.E./G.R. Area: C4

- HSC 398 - Internship *Units: 1-3*
- HSC 400 - Health Policy Research and Analysis *Units: 3*
- HSC 405 - Toxicology *Units: 3*
- HSC 410 - Qualitative Methods in the Health Sciences *Units: 3*
- HSC 420 - Occupational Health *Units: 3*
- HSC 423 - Homelessness, Urban Poverty, and Health *Units: 3*
- HSC 435 - Life Course Perspective on Health *Units: 3 ; G.E./G.R. Area: B6*
- HSC 440 - Global Health and Disability *Units: 3 ; G.E./G.R. Area: D4; Social Justice*
- HSC 445 - HIV/AIDS in a Global Context *Units: 3*
- HSC 450 - Health Communication *Units: 3*
- HSC 455 - Management and Employment Issues in the Health Professions *Units: 3*
- HSC 460 - Emergency Preparedness and Response *Units: 3*
- HSC 465 - Health Data and Information Management *Units: 3*
- HSC 470 - Health and The Built Environment *Units: 3*
- HSC 480 - State and Local Health Systems *Units: 3*

- HSC 485 - Applications of Research Methods in Health Sciences *Units: 3*
- HSC 490 - Independent Study *Units: 1-4*
- HSC 497 - Issues in Health Sciences *Units: 3*
- HSC 499A - Capstone in Health Sciences *Units: 3*
- HSC 499B - Capstone in Public Health Interventions *Units: 3*
- HSC 499C - Capstone in Health Policy *Units: 3*

Certificate

Data Technology in Health Science Certificate

The Undergraduate Certificate Program in Data Technology is designed for behavioral and health science majors. The program combines theories with emerging technologies, and use evidence-based educational practices as well as contextualized problem-based pedagogy in which students acquire key technical knowledge and skills by solving real-world problems. Students earn this undergraduate certificate to gain or enhance employment.

Requirements

The following 12 units are required:

- CS 100 - Programming for Everyone *Units: 3*
- CS 200 - Advanced Programming for Everyone *Units: 3*
- CS 350 - Databases for Social and Health Sciences *Units: 3*
- CS 497 - Topics in Computer Science *Units: 3*

Department of History

The Department Office is located on the 4th Floor of the Student and Faculty Services building, Room 442

Office Hours: 8:00 a.m. - 5:00 p.m., Monday through Friday

Dept Phone: (510) 885-3207

Faculty

Professor Emerita

Dee E. Andrews, Ph.D. University of Pennsylvania

Professors

Bridget Ford, Ph.D. University of California, Davis

Richard A. Garcia, Ph.D. University of California, Irvine

Linda Ivey (Chair), Ph.D. Georgetown University

Jessica Weiss, Ph.D. University of California, Berkeley

Associate Professors

Vahid Fozdar, Ph.D. University of California, Berkeley

Robert A. Phelps, Ph.D. University of California, Riverside

Assistant Professors

Anna Alexander, Ph.D. University of Arizona

Kevin Kaatz, Ph.D. Macquarie University, Sydney (Australia)

Elizabeth McGuire, Ph.D. University of California, Berkeley

Casey Nichols, Ph.D. Stanford University

Graduate Coordinator: Kevin Kaatz

Department Statement

The History programs at Cal State East Bay seek to present the study of History as an enjoyable and fruitful endeavor incorporating the essential elements of liberal learning. The programs focus on students' acquisition of knowledge, cultivation of perspective, and development of skills in written and oral communication and in critical thinking. We aim to develop students' concern for enduring human values and appreciation of diverse peoples and traditions, as well as to engage students in a rigorous and compelling understanding of how the past informs the present.

About the Department

Use our university website link to learn more about what the History Department has to offer.

- Advising
- Scholarships
- Public History
- History Student Association
- Resources
- Department News
- And more...

Bachelor

History, B.A.: Migration and Globalization Concentration

History, B.A. Program (120 units)

Program Description

Students who pursue a degree in History come to understand the major issues facing the contemporary world through a historical lens, and understand how actions and actors of the past have created the political, social, and environmental circumstances faced by civilization today. Their studies afford them entree to the riches of the recorded past and understanding of the process of historical change. At the same time, a History major enables them to develop critical reading and writing skills that are valuable in life and crucial in any employment field they choose to enter.

Career Opportunities

Archivist • Attorney • Corporate Historian • Curator • Diplomat/Foreign Service Officer • Government Service • International Relations Specialist • Journalist • Legal Assistant • Librarian • Museum Worker • Professor • Politician • Public Administrator • Researcher • Teacher • Writer

Features

The B.A. degree major in History requires 51 semester units in History, 16 at the lower division and 35 at the upper division level. A required applied history course (4 units) introduces majors to the practical application of historical method and research beyond the classroom. Concentration requirements (9 units) permit specialization in a particular area, while elective courses (6 units) provide additional breadth. Three one-unit history labs are required for all majors to deepen the skills learned in the required courses. Capstone courses in historiography and thesis research acquaint students with the theory and practice of historical study and provide opportunities for the student to engage in original historical research.

Program Learning Outcomes

Students graduating with a B.A. in History from Cal State East Bay will be able to:

1. assemble, organize, and interpret historical evidence, and achieve digital literacy in accessing and presenting historical materials;
2. demonstrate significant knowledge of major events and trends in their area of concentration;
3. write and speak clearly and persuasively about historical themes and topics, and solve historical problems by collaboratively with others;
4. conduct historical research in primary sources, provide original interpretation of sources, and accurately reference all sources, and construct historical arguments using original research;
5. identify differences and similarities among diverse peoples and cultures over time and develop an historical perspective on social responsibility and sustainability;
6. analyze the dynamics of applied history beyond the classroom.

Degree Requirements Unit-Outline

- A baccalaureate of arts degree requires a total of 120 units:
 - The major requirements consists of 51 units
 - General Education (GE) & Graduation Requirements (GR) consists of 57 units;
 - Free Electives may consist of 12 units (*actual number of free elective units may depend on GE/GR units*).

Note: It may be possible to double-count units within the graduation requirements or that a course may satisfy both a graduation requirement and a major requirement. Students should contact their program and AACE advisors for information.

History Major Requirements (51 units)

Lower Division Requirements

Students are required to take all of the following 16 units:

- HIST 101 - World History I *Units: 3 ; G.E./G.R. Area: C2*
- HIST 102 - World History II *Units: 3 ; G.E./G.R. Area: C2*
- HIST 110 - The United States to 1877 *Units: 3 ; G.E./G.R. Area: D1-3; US-1, US-2*
- HIST 111 - The United States Since 1877 *Units: 3 ; G.E./G.R. Area: D1-3; US-1, US-3*
- HIST 201 - Introduction to History *Units: 4*

Upper Division Skills Courses

Students must take 12 units as outlined below:

- HIST 301 - Historical Writing *Units: 4 ; G.E./G.R. Area: UWSR*
- HIST 400 - Historiography *Units: 4*
- HIST 405 - History Lab *Units: 1 (course must be taken 3 times)*
- HIST 409 - History Portfolio *Units: 1*

Applied History

Students must take one (1) of the Applied History courses listed below for 4 units:

- HIST 402 - Introduction to Public History *Units: 4*
- HIST 403 - Introduction to Digital Historical Methods *Units: 4*
- HIST 404 - Introduction to Teaching of History *Units: 4*

Elective Courses

With consultation from department faculty, students must take two (2) upper division history courses for a minimum of 6 units outside of their area of concentration.

Concentrations

Students must select one (1) of the following 9-unit concentrations:

- History, B.A.: Migration and Globalization Concentration
- History, B.A.: Social Justice and Citizenship Concentration
- History, B.A.: Sustainability and Modernization Concentration

Capstone Requirement

The thesis capstone experience for 4 units is required to complete the major.

- HIST 499 - Thesis Capstone *Units: 4*

Migration and Globalization Concentration

The Migration and Globalization concentration is 9 units. Students must choose three (3) courses from the following:

- HIST 322 - Warfare, Genocide, Terrorism: Globalization Through Conflict Since 1914 *Units: 3 ; G.E./G.R. Area: C4*
- HIST 327 - Love, Sex, Family: Globalization and Private Life Since 1914 *Units: 3 ; G.E./G.R. Area: C4*
- HIST 328 - 20th Century World *Units: 3 ; G.E./G.R. Area: C4*
- HIST 331 - The Barbarians *Units: 3 ; G.E./G.R. Area: C4*
- HIST 338 - The Roman Empire *Units: 3 ; G.E./G.R. Area: C4*
- HIST 344 - Revival and Reform in Early Modern Europe *Units: 3 ; G.E./G.R. Area: C4*
- HIST 352 - Modern Europe: Unity and Diversity *Units: 3 ; G.E./G.R. Area: C4*
- HIST 361 - Traditional India *Units: 3*
- HIST 362 - Modern South Asia *Units: 3 ; G.E./G.R. Area: C4*
- HIST 363 - The Middle East and the Rise of Islamic Societies *Units: 3 ; G.E./G.R. Area: C4*
- HIST 364 - The Modern Middle East *Units: 3 ; G.E./G.R. Area: C4*
- HIST 380 - The American West *Units: 3 ; G.E./G.R. Area: C4*
- HIST 383 - Mexican Americans in the West *Units: 3 ; G.E./G.R. Area: C4*
- HIST 387 - Immigration and the Contested American Identity *Units: 3 ; G.E./G.R. Area: C4*
- HIST 391 - Latin America: Conquest to Revolution *Units: 3 ; G.E./G.R. Area: C4*
- HIST 394 - US Mexico Relations Since 1810 *Units: 3*
- HIST 475 - The Pacific World *Units: 3*
- HIST 478 - Borderlands in North America *Units: 3 ; G.E./G.R. Area: C4*

Other Undergraduate Degree Requirements

In addition to major requirements, every student must also complete the University's baccalaureate requirements for graduation, which are described in the Requirements, Exams & Testing chapter of this catalog.

Department Courses Listed by Course Type

History Courses

Department of History

Go to information for this department.

Courses

History: Applied

- HIST 402 - Introduction to Public History *Units: 4*
- HIST 403 - Introduction to Digital Historical Methods *Units: 4*
- HIST 404 - Introduction to Teaching of History *Units: 4*

History: Lower Division

- HIST 101 - World History I *Units: 3 ; G.E./G.R. Area: C2*
- HIST 102 - World History II *Units: 3 ; G.E./G.R. Area: C2*
- HIST 110 - The United States to 1877 *Units: 3 ; G.E./G.R. Area: D1-3; US-1, US-2*
- HIST 111 - The United States Since 1877 *Units: 3 ; G.E./G.R. Area: D1-3; US-1, US-3*

History: Graduate

- HIST 600 - Reading Seminar in History *Units: 4*
- HIST 610 - Research Seminar *Units: 4*
- HIST 630 - Graduate Historiography *Units: 4*
- HIST 641 - Graduate Internship *Units: 4*
- HIST 642 - Public History Practicum *Units: 4*
- HIST 643 - Digital History Practicum *Units: 4*
- HIST 644 - Teaching History Practicum *Units: 4*
- HIST 651 - Graduate Portfolio *Units: 2*
- HIST 652 - Scholarly Practicum *Units: 2*
- HIST 690 - Independent Study *Units: 1-4*
- HIST 691 - University Thesis *Units: 6*
- HIST 692 - Comprehensive Exam Review *Units: 6*
- HIST 697 - Issues in History *Units: 4*
- HIST 699 - Departmental Thesis *Units: 6*

History: Migration and Globalization

- HIST 322 - Warfare, Genocide, Terrorism: Globalization Through Conflict Since 1914 *Units: 3 ; G.E./G.R. Area: C4*
- HIST 327 - Love, Sex, Family: Globalization and Private Life Since 1914 *Units: 3 ; G.E./G.R. Area: C4*
- HIST 328 - 20th Century World *Units: 3 ; G.E./G.R. Area: C4*
- HIST 331 - The Barbarians *Units: 3 ; G.E./G.R. Area: C4*
- HIST 336 - Ancient Greece *Units: 3 ; G.E./G.R. Area: C4*
- HIST 338 - The Roman Empire *Units: 3 ; G.E./G.R. Area: C4*
- HIST 344 - Revival and Reform in Early Modern Europe *Units: 3 ; G.E./G.R. Area: C4*
- HIST 352 - Modern Europe: Unity and Diversity *Units: 3 ; G.E./G.R. Area: C4*
- HIST 361 - Traditional India *Units: 3*
- HIST 362 - Modern South Asia *Units: 3 ; G.E./G.R. Area: C4*
- HIST 363 - The Middle East and the Rise of Islamic Societies *Units: 3 ; G.E./G.R. Area: C4*
- HIST 364 - The Modern Middle East *Units: 3 ; G.E./G.R. Area: C4*
- HIST 380 - The American West *Units: 3 ; G.E./G.R. Area: C4*
- HIST 383 - Mexican Americans in the West *Units: 3 ; G.E./G.R. Area: C4*
- HIST 387 - Immigration and the Contested American Identity *Units: 3 ; G.E./G.R. Area: C4*
- HIST 391 - Latin America: Conquest to Revolution *Units: 3 ; G.E./G.R. Area: C4*
- HIST 394 - US Mexico Relations Since 1810 *Units: 3*
- HIST 475 - The Pacific World *Units: 3*
- HIST 478 - Borderlands in North America *Units: 3 ; G.E./G.R. Area: C4*

History: Social Justice and Citizenships

- HIST 320 - Transnational Revolution in the Modern World *Units: 3*
- HIST 321 - Communism as Civilization *Units: 3*
- HIST 326 - Global Feminisms: A History *Units: 3*
- HIST 332 - Tolerance and Intolerance in the Roman Empire *Units: 3 ; G.E./G.R. Area: C4*
- HIST 335 - Rome and Christianity *Units: 3 ; G.E./G.R. Area: C4*
- HIST 342 - Unity and Diversity in the Middle Ages *Units: 3*
- HIST 343 - Society and Culture in the High Middle Ages *Units: 3 ; G.E./G.R. Area: C4*
- HIST 372 - Slavery and Freedom in the Atlantic World *Units: 3*
- HIST 373 - The American Revolution *Units: 3*
- HIST 374 - The Constitution and Its Times *Units: 3*
- HIST 375 - Religion and Diversity in America *Units: 3 ; G.E./G.R. Area: C4*
- HIST 376 - Destroying Slavery in the US Civil War *Units: 3*
- HIST 378 - The Nineteenth Century in the US *Units: 3 ; G.E./G.R. Area: C4*
- HIST 379 - Native North America *Units: 3*
- HIST 381 - US Political History *Units: 3*
- HIST 384 - Modern American Thought *Units: 3 ; G.E./G.R. Area: C4*
- HIST 385 - Race and the Modern American Nation *Units: 3*
- HIST 389 - Social Justice and Reform Movements in America *Units: 3 ; G.E./G.R. Area: D4;*

Social Justice

- HIST 393 - Revolutionary Thought in Latin America *Units: 3 ; G.E./G.R. Area: D4*
- HIST 461 - India Through Film *Units: 3*
- HIST 471 - History of the East Bay: Community Research and Engagement *Units: 3*
- HIST 472 - War and Peace in US History *Units: 3 ; G.E./G.R. Area: C4*
- HIST 473 - Sexuality and Identity in US History *Units: 3 ; G.E./G.R. Area: C4*
- HIST 474 - Women, Gender and Rights in US History *Units: 3 ; G.E./G.R. Area: C4*
- HIST 479 - World War II: Global Warfront, Local Homefront *Units: 3 ; G.E./G.R. Area: D4*
- HIST 488 - Education and American Democracy *Units: 3 ; G.E./G.R. Area: C4*

History: Sustainability and Modernization

- HIST 277 - Science and Culture in the History of Medicine in the United States *Units: 3 ; G.E./G.R. Area: C2; Writing II*
- HIST 323 - Global Environmental History *Units: 3 ; G.E./G.R. Area: C4*
- HIST 333 - Sustainability in the Ancient World *Units: 3 ; G.E./G.R. Area: C4; Sustainability*
- HIST 334 - Ancient Egyptian Civilization *Units: 3 ; G.E./G.R. Area: C4*
- HIST 337 - The Roman Republic *Units: 3 ; G.E./G.R. Area: C4*
- HIST 341 - The Birth of Europe *Units: 3 ; G.E./G.R. Area: C4*
- HIST 345 - Conflict and Expansion in Early Modern Europe *Units: 3*
- HIST 351 - Russia: Peter to the Present *Units: 3*
- HIST 365 - China: Origins to Mongol Conquest *Units: 3 ; G.E./G.R. Area: D4*
- HIST 366 - China: Ming Dynasty to Today *Units: 3 ; G.E./G.R. Area: C4*
- HIST 367 - Japan: Origins to Tokugawa *Units: 3 ; G.E./G.R. Area: C4*
- HIST 368 - Japan, Tokugawa to Today *Units: 3 ; G.E./G.R. Area: C4*
- HIST 369 - The Korean Peninsula *Units: 3 ; G.E./G.R. Area: C4*
- HIST 371 - North America: 1492-1850 *Units: 3 ; G.E./G.R. Area: C4*
- HIST 377 - The Birth of American Popular Culture *Units: 3*
- HIST 382 - California and the World *Units: 3 ; G.E./G.R. Area: D4; US-3*
- HIST 386 - Food and Justice in US History *Units: 3 ; G.E./G.R. Area: C4*
- HIST 388 - US and California Environmental History *Units: 3 ; G.E./G.R. Area: C4*
- HIST 392 - Migration and Modernization in 20th Century Mexico *Units: 3*

History: Skills Courses

- HIST 201 - Introduction to History *Units: 4*
- HIST 301 - Historical Writing *Units: 4 ; G.E./G.R. Area: UWSR*
- HIST 398 - Internship *Units: 1-3*
- HIST 400 - Historiography *Units: 4*
- HIST 405 - History Lab *Units: 1*
- HIST 409 - History Portfolio *Units: 1*
- HIST 499 - Thesis Capstone *Units: 4*

History: Additional Courses

- HIST 120 - Self and Story in World History *Units: 3 ; G.E./G.R. Area: D1-3*
- HIST 140 - Humanity, Science and Nature in History *Units: 3 ; G.E./G.R. Area: C2*
- HIST 410 - Internship in History *Units: 3*
- HIST 477 - History and Trends in Nursing *Units: 3 ; G.E./G.R. Area: C4*
- HIST 490 - Independent Study *Units: 3-4*
- HIST 497 - Issues in History *Units: 3*

History, B.A.: Social Justice and Citizenships Concentration

History, B.A. Program (120 units)

Program Description

Students who pursue a degree in History come to understand the major issues facing the contemporary world through a historical lens, and understand how actions and actors of the past have created the political, social, and environmental circumstances faced by civilization today. Their studies afford them entree to the riches of the recorded past and understanding of the process of historical change. At the same time, a History major enables them to develop critical reading and writing skills that are valuable in life and crucial in any employment field they choose to enter.

Career Opportunities

Archivist • Attorney • Corporate Historian • Curator • Diplomat/Foreign Service Officer • Government Service • International Relations Specialist • Journalist • Legal Assistant • Librarian • Museum Worker • Professor • Politician • Public Administrator • Researcher • Teacher • Writer

Features

The B.A. degree major in History requires 51 semester units in History, 16 at the lower division and 35 at the upper division level. A required applied history course (4 units) introduces majors to the practical application of historical method and research beyond the classroom. Concentration requirements (9 units) permit specialization in a particular area, while elective courses (6 units) provide additional breadth. Three one-unit history labs are required for all majors to deepen the skills learned in the required courses. Capstone courses in historiography and thesis research acquaint students with the theory and practice of historical study and provide opportunities for the student to engage in original historical research.

Program Learning Outcomes

Students graduating with a B.A. in History from Cal State East Bay will be able to:

1. assemble, organize, and interpret historical evidence, and achieve digital literacy in accessing and presenting historical materials;
2. demonstrate significant knowledge of major events and trends in their area of concentration;
3. write and speak clearly and persuasively about historical themes and topics, and solve historical problems by collaboratively with others;
4. conduct historical research in primary sources, provide original interpretation of sources, and accurately reference all sources, and construct historical arguments using original research;
5. identify differences and similarities among diverse peoples and cultures over time and develop an historical perspective on social responsibility and sustainability;
6. analyze the dynamics of applied history beyond the classroom.

Degree Requirements Unit-Outline

- A baccalaureate of arts degree requires a total of 120 units:
 - The major requirements consists of 51 units
 - General Education (GE) & Graduation Requirements (GR) consists of 57 units;
 - Free Electives may consist of 12 units (*actual number of free elective units may depend on GE/GR units*).
- Note: It may be possible to double-count units within the graduation requirements or that a course may satisfy both a graduation requirement and a major requirement. Students should contact their program and AACE advisors for information.*

History Major Requirements (51 units)

Lower Division Requirements

Students are required to take all of the following 16 units:

- HIST 101 - World History I Units: 3 ; G.E./G.R. Area: C2
- HIST 102 - World History II Units: 3 ; G.E./G.R. Area: C2
- HIST 110 - The United States to 1877 Units: 3 ; G.E./G.R. Area: D1-3; US-1, US-2
- HIST 111 - The United States Since 1877 Units: 3 ; G.E./G.R. Area: D1-3; US-1, US-3
- HIST 201 - Introduction to History Units: 4

Upper Division Skills Courses

Students must take 12 units as outlined below:

- HIST 301 - Historical Writing Units: 4 ; G.E./G.R. Area: UWSR
- HIST 400 - Historiography Units: 4
- HIST 405 - History Lab Units: 1 (*course must be taken 3 times*)
- HIST 409 - History Portfolio Units: 1

Applied History

Students must take one (1) of the Applied History courses listed below for 4 units:

- HIST 402 - Introduction to Public History Units: 4

- HIST 403 - Introduction to Digital Historical Methods *Units: 4*
- HIST 404 - Introduction to Teaching of History *Units: 4*

Elective Courses

With consultation from department faculty, students must take two (2) upper division history courses for a minimum of 6 units outside of their area of concentration.

Concentrations

Students must select one (1) of the following 9-unit concentrations:

- History, B.A.: Migration and Globalization Concentration
- History, B.A.: Social Justice and Citizenships Concentration
- History, B.A.: Sustainability and Modernization Concentration

Capstone Requirement

The thesis capstone experience for 4 units is required to complete the major.

- HIST 499 - Thesis Capstone *Units: 4*

Social Justice and Citizenships Concentration

The Social Justice and Citizenship concentration is 9 units. Students choose three (3) courses from the following:

- HIST 320 - Transnational Revolution in the Modern World *Units: 3*
- HIST 321 - Communism as Civilization *Units: 3*
- HIST 326 - Global Feminisms: A History *Units: 3*
- HIST 332 - Tolerance and Intolerance in the Roman Empire *Units: 3 ; G.E./G.R. Area: C4*
- HIST 335 - Rome and Christianity *Units: 3 ; G.E./G.R. Area: C4*
- HIST 342 - Unity and Diversity in the Middle Ages *Units: 3*
- HIST 343 - Society and Culture in the High Middle Ages *Units: 3 ; G.E./G.R. Area: C4*
- HIST 372 - Slavery and Freedom in the Atlantic World *Units: 3*
- HIST 373 - The American Revolution *Units: 3*
- HIST 374 - The Constitution and Its Times *Units: 3*
- HIST 375 - Religion and Diversity in America *Units: 3 ; G.E./G.R. Area: C4*
- HIST 376 - Destroying Slavery in the US Civil War *Units: 3*
- HIST 378 - The Nineteenth Century in the US *Units: 3 ; G.E./G.R. Area: C4*
- HIST 379 - Native North America *Units: 3*
- HIST 381 - US Political History *Units: 3*
- HIST 384 - Modern American Thought *Units: 3 ; G.E./G.R. Area: C4*
- HIST 385 - Race and the Modern American Nation *Units: 3*

- HIST 389 - Social Justice and Reform Movements in America *Units: 3 ; G.E./G.R. Area: D4; Social Justice*
- HIST 393 - Revolutionary Thought in Latin America *Units: 3 ; G.E./G.R. Area: D4*
- HIST 461 - India Through Film *Units: 3*
- HIST 471 - History of the East Bay: Community Research and Engagement *Units: 3*
- HIST 472 - War and Peace in US History *Units: 3 ; G.E./G.R. Area: C4*
- HIST 473 - Sexuality and Identity in US History *Units: 3 ; G.E./G.R. Area: C4*
- HIST 474 - Women, Gender and Rights in US History *Units: 3 ; G.E./G.R. Area: C4*
- HIST 479 - World War II: Global Warfront, Local Homefront *Units: 3 ; G.E./G.R. Area: D4*
- HIST 488 - Education and American Democracy *Units: 3 ; G.E./G.R. Area: C4*

Other Undergraduate Degree Requirements

In addition to major requirements, every student must also complete the University's baccalaureate requirements for graduation, which are described in the Requirements, Exams & Testing chapter of this catalog.

Department Courses Listed by Course Type

History Courses

Department of History

Go to information for this department.

Courses

History: Applied

- HIST 402 - Introduction to Public History *Units: 4*
- HIST 403 - Introduction to Digital Historical Methods *Units: 4*
- HIST 404 - Introduction to Teaching of History *Units: 4*

History: Lower Division

- HIST 101 - World History I *Units: 3 ; G.E./G.R. Area: C2*
- HIST 102 - World History II *Units: 3 ; G.E./G.R. Area: C2*
- HIST 110 - The United States to 1877 *Units: 3 ; G.E./G.R. Area: D1-3; US-1, US-2*
- HIST 111 - The United States Since 1877 *Units: 3 ; G.E./G.R. Area: D1-3; US-1, US-3*

History: Graduate

- HIST 600 - Reading Seminar in History *Units: 4*
- HIST 610 - Research Seminar *Units: 4*
- HIST 630 - Graduate Historiography *Units: 4*
- HIST 641 - Graduate Internship *Units: 4*
- HIST 642 - Public History Practicum *Units: 4*
- HIST 643 - Digital History Practicum *Units: 4*

- HIST 644 - Teaching History Practicum *Units: 4*
- HIST 651 - Graduate Portfolio *Units: 2*
- HIST 652 - Scholarly Practicum *Units: 2*
- HIST 690 - Independent Study *Units: 1-4*
- HIST 691 - University Thesis *Units: 6*
- HIST 692 - Comprehensive Exam Review *Units: 6*
- HIST 697 - Issues in History *Units: 4*
- HIST 699 - Departmental Thesis *Units: 6*

History: Migration and Globalization

- HIST 322 - Warfare, Genocide, Terrorism: Globalization Through Conflict Since 1914 *Units: 3 ; G.E./G.R. Area: C4*
- HIST 327 - Love, Sex, Family: Globalization and Private Life Since 1914 *Units: 3 ; G.E./G.R. Area: C4*
- HIST 328 - 20th Century World *Units: 3 ; G.E./G.R. Area: C4*
- HIST 331 - The Barbarians *Units: 3 ; G.E./G.R. Area: C4*
- HIST 336 - Ancient Greece *Units: 3 ; G.E./G.R. Area: C4*
- HIST 338 - The Roman Empire *Units: 3 ; G.E./G.R. Area: C4*
- HIST 344 - Revival and Reform in Early Modern Europe *Units: 3 ; G.E./G.R. Area: C4*
- HIST 352 - Modern Europe: Unity and Diversity *Units: 3 ; G.E./G.R. Area: C4*
- HIST 361 - Traditional India *Units: 3*
- HIST 362 - Modern South Asia *Units: 3 ; G.E./G.R. Area: C4*
- HIST 363 - The Middle East and the Rise of Islamic Societies *Units: 3 ; G.E./G.R. Area: C4*
- HIST 364 - The Modern Middle East *Units: 3 ; G.E./G.R. Area: C4*
- HIST 380 - The American West *Units: 3 ; G.E./G.R. Area: C4*
- HIST 383 - Mexican Americans in the West *Units: 3 ; G.E./G.R. Area: C4*
- HIST 387 - Immigration and the Contested American Identity *Units: 3 ; G.E./G.R. Area: C4*
- HIST 391 - Latin America: Conquest to Revolution *Units: 3 ; G.E./G.R. Area: C4*
- HIST 394 - US Mexico Relations Since 1810 *Units: 3*
- HIST 475 - The Pacific World *Units: 3*
- HIST 478 - Borderlands in North America *Units: 3 ; G.E./G.R. Area: C4*

History: Social Justice and Citizenships

- HIST 320 - Transnational Revolution in the Modern World *Units: 3*
- HIST 321 - Communism as Civilization *Units: 3*
- HIST 326 - Global Feminisms: A History *Units: 3*
- HIST 332 - Tolerance and Intolerance in the Roman Empire *Units: 3 ; G.E./G.R. Area: C4*
- HIST 335 - Rome and Christianity *Units: 3 ; G.E./G.R. Area: C4*
- HIST 342 - Unity and Diversity in the Middle Ages *Units: 3*
- HIST 343 - Society and Culture in the High Middle Ages *Units: 3 ; G.E./G.R. Area: C4*
- HIST 372 - Slavery and Freedom in the Atlantic World *Units: 3*
- HIST 373 - The American Revolution *Units: 3*
- HIST 374 - The Constitution and Its Times *Units: 3*
- HIST 375 - Religion and Diversity in America *Units: 3 ; G.E./G.R. Area: C4*
- HIST 376 - Destroying Slavery in the US Civil War *Units: 3*
- HIST 378 - The Nineteenth Century in the US *Units: 3 ; G.E./G.R. Area: C4*
- HIST 379 - Native North America *Units: 3*
- HIST 381 - US Political History *Units: 3*
- HIST 384 - Modern American Thought *Units: 3 ; G.E./G.R. Area: C4*
- HIST 385 - Race and the Modern American Nation *Units: 3*
- HIST 389 - Social Justice and Reform Movements in America *Units: 3 ; G.E./G.R. Area: D4;*

Social Justice

- HIST 393 - Revolutionary Thought in Latin America *Units: 3 ; G.E./G.R. Area: D4*
- HIST 461 - India Through Film *Units: 3*
- HIST 471 - History of the East Bay: Community Research and Engagement *Units: 3*
- HIST 472 - War and Peace in US History *Units: 3 ; G.E./G.R. Area: C4*
- HIST 473 - Sexuality and Identity in US History *Units: 3 ; G.E./G.R. Area: C4*
- HIST 474 - Women, Gender and Rights in US History *Units: 3 ; G.E./G.R. Area: C4*
- HIST 479 - World War II: Global Warfront, Local Homefront *Units: 3 ; G.E./G.R. Area: D4*
- HIST 488 - Education and American Democracy *Units: 3 ; G.E./G.R. Area: C4*

History: Sustainability and Modernization

- HIST 277 - Science and Culture in the History of Medicine in the United States *Units: 3 ; G.E./G.R. Area: C2; Writing II*
- HIST 323 - Global Environmental History *Units: 3 ; G.E./G.R. Area: C4*
- HIST 333 - Sustainability in the Ancient World *Units: 3 ; G.E./G.R. Area: C4; Sustainability*
- HIST 334 - Ancient Egyptian Civilization *Units: 3 ; G.E./G.R. Area: C4*
- HIST 337 - The Roman Republic *Units: 3 ; G.E./G.R. Area: C4*
- HIST 341 - The Birth of Europe *Units: 3 ; G.E./G.R. Area: C4*
- HIST 345 - Conflict and Expansion in Early Modern Europe *Units: 3*
- HIST 351 - Russia: Peter to the Present *Units: 3*
- HIST 365 - China: Origins to Mongol Conquest *Units: 3 ; G.E./G.R. Area: D4*
- HIST 366 - China: Ming Dynasty to Today *Units: 3 ; G.E./G.R. Area: C4*
- HIST 367 - Japan: Origins to Tokugawa *Units: 3 ; G.E./G.R. Area: C4*
- HIST 368 - Japan, Tokugawa to Today *Units: 3 ; G.E./G.R. Area: C4*
- HIST 369 - The Korean Peninsula *Units: 3 ; G.E./G.R. Area: C4*
- HIST 371 - North America: 1492-1850 *Units: 3 ; G.E./G.R. Area: C4*
- HIST 377 - The Birth of American Popular Culture *Units: 3*
- HIST 382 - California and the World *Units: 3 ; G.E./G.R. Area: D4; US-3*
- HIST 386 - Food and Justice in US History *Units: 3 ; G.E./G.R. Area: C4*
- HIST 388 - US and California Environmental History *Units: 3 ; G.E./G.R. Area: C4*
- HIST 392 - Migration and Modernization in 20th Century Mexico *Units: 3*

History: Skills Courses

- HIST 201 - Introduction to History *Units: 4*
- HIST 301 - Historical Writing *Units: 4 ; G.E./G.R. Area: UWSR*
- HIST 398 - Internship *Units: 1-3*
- HIST 400 - Historiography *Units: 4*
- HIST 405 - History Lab *Units: 1*
- HIST 409 - History Portfolio *Units: 1*
- HIST 499 - Thesis Capstone *Units: 4*

History: Additional Courses

- HIST 120 - Self and Story in World History *Units: 3 ; G.E./G.R. Area: D1-3*
- HIST 140 - Humanity, Science and Nature in History *Units: 3 ; G.E./G.R. Area: C2*
- HIST 410 - Internship in History *Units: 3*
- HIST 477 - History and Trends in Nursing *Units: 3 ; G.E./G.R. Area: C4*
- HIST 490 - Independent Study *Units: 3-4*
- HIST 497 - Issues in History *Units: 3*

History, B.A.: Sustainability and Modernization Concentration

History, B.A. Program (120 units)

Program Description

Students who pursue a degree in History come to understand the major issues facing the contemporary world through a historical lens, and understand how actions and actors of the past have created the political, social, and environmental circumstances faced by civilization today. Their studies afford them entree to the riches of the recorded past and understanding of the process of historical change. At the same time, a History major enables them to develop critical reading and writing skills that are valuable in life and crucial in any employment field they choose to enter.

Career Opportunities

Archivist • Attorney • Corporate Historian • Curator • Diplomat/Foreign Service Officer • Government Service • International Relations Specialist • Journalist • Legal Assistant • Librarian • Museum Worker • Professor • Politician • Public Administrator • Researcher • Teacher • Writer

Features

The B.A. degree major in History requires 51 semester units in History, 16 at the lower division and 35 at the upper division level. A required applied history course (4 units) introduces majors to the practical application of historical method and research beyond the classroom. Concentration requirements (9 units) permit specialization in a particular area, while elective courses (6 units) provide additional breadth. Three one-unit history labs are required for all majors to deepen the skills learned in the required courses. Capstone courses in historiography and thesis research acquaint students with the theory and practice of historical study and provide opportunities for the student to engage in original historical research.

Program Learning Outcomes

Students graduating with a B.A. in History from Cal State East Bay will be able to:

1. assemble, organize, and interpret historical evidence, and achieve digital literacy in accessing and presenting historical materials;
2. demonstrate significant knowledge of major events and trends in their area of concentration;
3. write and speak clearly and persuasively about historical themes and topics, and solve historical problems by collaboratively with others;
4. conduct historical research in primary sources, provide original interpretation of sources, and accurately reference all sources, and construct historical arguments using original research;
5. identify differences and similarities among diverse peoples and cultures over time and develop an historical perspective on social responsibility and sustainability;
6. analyze the dynamics of applied history beyond the classroom.

Degree Requirements Unit-Outline

- A baccalaureate of arts degree requires a total of 120 units:
 - The major requirements consists of 51 units
 - General Education (GE) & Graduation Requirements (GR) consists of 57 units;
 - Free Electives may consist of 12 units (*actual number of free elective units may depend on GE/GR units*).

Note: It may be possible to double-count units within the graduation requirements or that a course may satisfy both a graduation requirement and a major requirement. Students should contact their program and AACE advisors for information.

History Major Requirements (51 units)

Lower Division Requirements

Students are required to take all of the following 16 units:

- HIST 101 - World History I *Units: 3 ; G.E./G.R. Area: C2*
- HIST 102 - World History II *Units: 3 ; G.E./G.R. Area: C2*
- HIST 110 - The United States to 1877 *Units: 3 ; G.E./G.R. Area: D1-3; US-1, US-2*
- HIST 111 - The United States Since 1877 *Units: 3 ; G.E./G.R. Area: D1-3; US-1, US-3*
- HIST 201 - Introduction to History *Units: 4*

Upper Division Skills Courses

Students must take 12 units as outlined below:

- HIST 301 - Historical Writing *Units: 4 ; G.E./G.R. Area: UWSR*
- HIST 400 - Historiography *Units: 4*
- HIST 405 - History Lab *Units: 1 (course must be taken 3 times)*
- HIST 409 - History Portfolio *Units: 1*

Applied History

Students must take one (1) of the Applied History courses listed below for 4 units:

- HIST 402 - Introduction to Public History *Units: 4*
- HIST 403 - Introduction to Digital Historical Methods *Units: 4*
- HIST 404 - Introduction to Teaching of History *Units: 4*

Elective Courses

With consultation from department faculty, students must take two (2) upper division history courses for a minimum of 6 units outside of their area of concentration.

Concentrations

Students must select one (1) of the following 9-unit concentrations:

- History, B.A.: Migration and Globalization Concentration
- History, B.A.: Social Justice and Citizenship Concentration
- History, B.A.: Sustainability and Modernization Concentration

Capstone Requirement

The thesis capstone experience for 4 units is required to complete the major.

- HIST 499 - Thesis Capstone *Units: 4*

Sustainability and Modernization Concentration

The Sustainability and Modernization concentration is 9 units. Students must choose three (3) courses from the following:

- HIST 323 - Global Environmental History *Units: 3 ; G.E./G.R. Area: C4*
- HIST 333 - Sustainability in the Ancient World *Units: 3 ; G.E./G.R. Area: C4;*
Sustainability
- HIST 334 - Ancient Egyptian Civilization *Units: 3 ; G.E./G.R. Area: C4*
- HIST 337 - The Roman Republic *Units: 3 ; G.E./G.R. Area: C4*
- HIST 341 - The Birth of Europe *Units: 3 ; G.E./G.R. Area: C4*
- HIST 345 - Conflict and Expansion in Early Modern Europe *Units: 3*
- HIST 351 - Russia: Peter to the Present *Units: 3*
- HIST 365 - China: Origins to Mongol Conquest *Units: 3 ; G.E./G.R. Area: D4*
- HIST 366 - China: Ming Dynasty to Today *Units: 3 ; G.E./G.R. Area: C4*
- HIST 367 - Japan: Origins to Tokugawa *Units: 3 ; G.E./G.R. Area: C4*
- HIST 368 - Japan, Tokugawa to Today *Units: 3 ; G.E./G.R. Area: C4*
- HIST 369 - The Korean Peninsula *Units: 3 ; G.E./G.R. Area: C4*
- HIST 371 - North America: 1492-1850 *Units: 3 ; G.E./G.R. Area: C4*
- HIST 377 - The Birth of American Popular Culture *Units: 3*
- HIST 382 - California and the World *Units: 3 ; G.E./G.R. Area: D4; US-3*
- HIST 386 - Food and Justice in US History *Units: 3 ; G.E./G.R. Area: C4*
- HIST 388 - US and California Environmental History *Units: 3 ; G.E./G.R. Area: C4*
- HIST 392 - Migration and Modernization in 20th Century Mexico *Units: 3*
- HIST 277 - Science and Culture in the History of Medicine in the United States *Units: 3 ; G.E./G.R. Area: C2; Writing II*

Other Undergraduate Degree Requirements

In addition to major requirements, every student must also complete the University's baccalaureate requirements for graduation, which are described in the Requirements, Exams & Testing chapter of this catalog.

Department Courses Listed by Course Type

History Courses

Department of History

Go to information for this department.

Courses

History: Applied

- HIST 402 - Introduction to Public History *Units: 4*
- HIST 403 - Introduction to Digital Historical Methods *Units: 4*
- HIST 404 - Introduction to Teaching of History *Units: 4*

History: Lower Division

- HIST 101 - World History I *Units: 3 ; G.E./G.R. Area: C2*
- HIST 102 - World History II *Units: 3 ; G.E./G.R. Area: C2*
- HIST 110 - The United States to 1877 *Units: 3 ; G.E./G.R. Area: D1-3; US-1, US-2*
- HIST 111 - The United States Since 1877 *Units: 3 ; G.E./G.R. Area: D1-3; US-1, US-3*

History: Graduate

- HIST 600 - Reading Seminar in History *Units: 4*
- HIST 610 - Research Seminar *Units: 4*
- HIST 630 - Graduate Historiography *Units: 4*
- HIST 641 - Graduate Internship *Units: 4*
- HIST 642 - Public History Practicum *Units: 4*
- HIST 643 - Digital History Practicum *Units: 4*
- HIST 644 - Teaching History Practicum *Units: 4*
- HIST 651 - Graduate Portfolio *Units: 2*
- HIST 652 - Scholarly Practicum *Units: 2*
- HIST 690 - Independent Study *Units: 1-4*
- HIST 691 - University Thesis *Units: 6*
- HIST 692 - Comprehensive Exam Review *Units: 6*
- HIST 697 - Issues in History *Units: 4*
- HIST 699 - Departmental Thesis *Units: 6*

History: Migration and Globalization

- HIST 322 - Warfare, Genocide, Terrorism: Globalization Through Conflict Since 1914 *Units: 3 ; G.E./G.R. Area: C4*
- HIST 327 - Love, Sex, Family: Globalization and Private Life Since 1914 *Units: 3 ; G.E./G.R. Area: C4*
- HIST 328 - 20th Century World *Units: 3 ; G.E./G.R. Area: C4*
- HIST 331 - The Barbarians *Units: 3 ; G.E./G.R. Area: C4*
- HIST 336 - Ancient Greece *Units: 3 ; G.E./G.R. Area: C4*
- HIST 338 - The Roman Empire *Units: 3 ; G.E./G.R. Area: C4*
- HIST 344 - Revival and Reform in Early Modern Europe *Units: 3 ; G.E./G.R. Area: C4*
- HIST 352 - Modern Europe: Unity and Diversity *Units: 3 ; G.E./G.R. Area: C4*
- HIST 361 - Traditional India *Units: 3*
- HIST 362 - Modern South Asia *Units: 3 ; G.E./G.R. Area: C4*
- HIST 363 - The Middle East and the Rise of Islamic Societies *Units: 3 ; G.E./G.R. Area: C4*
- HIST 364 - The Modern Middle East *Units: 3 ; G.E./G.R. Area: C4*
- HIST 380 - The American West *Units: 3 ; G.E./G.R. Area: C4*
- HIST 383 - Mexican Americans in the West *Units: 3 ; G.E./G.R. Area: C4*
- HIST 387 - Immigration and the Contested American Identity *Units: 3 ; G.E./G.R. Area: C4*
- HIST 391 - Latin America: Conquest to Revolution *Units: 3 ; G.E./G.R. Area: C4*
- HIST 394 - US Mexico Relations Since 1810 *Units: 3*
- HIST 475 - The Pacific World *Units: 3*
- HIST 478 - Borderlands in North America *Units: 3 ; G.E./G.R. Area: C4*

History: Social Justice and Citizenships

- HIST 320 - Transnational Revolution in the Modern World *Units: 3*
- HIST 321 - Communism as Civilization *Units: 3*
- HIST 326 - Global Feminisms: A History *Units: 3*
- HIST 332 - Tolerance and Intolerance in the Roman Empire *Units: 3 ; G.E./G.R. Area: C4*
- HIST 335 - Rome and Christianity *Units: 3 ; G.E./G.R. Area: C4*
- HIST 342 - Unity and Diversity in the Middle Ages *Units: 3*
- HIST 343 - Society and Culture in the High Middle Ages *Units: 3 ; G.E./G.R. Area: C4*
- HIST 372 - Slavery and Freedom in the Atlantic World *Units: 3*
- HIST 373 - The American Revolution *Units: 3*
- HIST 374 - The Constitution and Its Times *Units: 3*
- HIST 375 - Religion and Diversity in America *Units: 3 ; G.E./G.R. Area: C4*
- HIST 376 - Destroying Slavery in the US Civil War *Units: 3*
- HIST 378 - The Nineteenth Century in the US *Units: 3 ; G.E./G.R. Area: C4*
- HIST 379 - Native North America *Units: 3*
- HIST 381 - US Political History *Units: 3*
- HIST 384 - Modern American Thought *Units: 3 ; G.E./G.R. Area: C4*
- HIST 385 - Race and the Modern American Nation *Units: 3*
- HIST 389 - Social Justice and Reform Movements in America *Units: 3 ; G.E./G.R. Area: D4;*

Social Justice

- HIST 393 - Revolutionary Thought in Latin America *Units: 3 ; G.E./G.R. Area: D4*
- HIST 461 - India Through Film *Units: 3*
- HIST 471 - History of the East Bay: Community Research and Engagement *Units: 3*
- HIST 472 - War and Peace in US History *Units: 3 ; G.E./G.R. Area: C4*
- HIST 473 - Sexuality and Identity in US History *Units: 3 ; G.E./G.R. Area: C4*
- HIST 474 - Women, Gender and Rights in US History *Units: 3 ; G.E./G.R. Area: C4*
- HIST 479 - World War II: Global Warfront, Local Homefront *Units: 3 ; G.E./G.R. Area: D4*
- HIST 488 - Education and American Democracy *Units: 3 ; G.E./G.R. Area: C4*

History: Sustainability and Modernization

- HIST 277 - Science and Culture in the History of Medicine in the United States *Units: 3 ; G.E./G.R. Area: C2; Writing II*
- HIST 323 - Global Environmental History *Units: 3 ; G.E./G.R. Area: C4*
- HIST 333 - Sustainability in the Ancient World *Units: 3 ; G.E./G.R. Area: C4; Sustainability*
- HIST 334 - Ancient Egyptian Civilization *Units: 3 ; G.E./G.R. Area: C4*
- HIST 337 - The Roman Republic *Units: 3 ; G.E./G.R. Area: C4*
- HIST 341 - The Birth of Europe *Units: 3 ; G.E./G.R. Area: C4*
- HIST 345 - Conflict and Expansion in Early Modern Europe *Units: 3*
- HIST 351 - Russia: Peter to the Present *Units: 3*
- HIST 365 - China: Origins to Mongol Conquest *Units: 3 ; G.E./G.R. Area: D4*
- HIST 366 - China: Ming Dynasty to Today *Units: 3 ; G.E./G.R. Area: C4*
- HIST 367 - Japan: Origins to Tokugawa *Units: 3 ; G.E./G.R. Area: C4*
- HIST 368 - Japan, Tokugawa to Today *Units: 3 ; G.E./G.R. Area: C4*
- HIST 369 - The Korean Peninsula *Units: 3 ; G.E./G.R. Area: C4*
- HIST 371 - North America: 1492-1850 *Units: 3 ; G.E./G.R. Area: C4*
- HIST 377 - The Birth of American Popular Culture *Units: 3*
- HIST 382 - California and the World *Units: 3 ; G.E./G.R. Area: D4; US-3*
- HIST 386 - Food and Justice in US History *Units: 3 ; G.E./G.R. Area: C4*
- HIST 388 - US and California Environmental History *Units: 3 ; G.E./G.R. Area: C4*
- HIST 392 - Migration and Modernization in 20th Century Mexico *Units: 3*

History: Skills Courses

- HIST 201 - Introduction to History *Units: 4*
- HIST 301 - Historical Writing *Units: 4 ; G.E./G.R. Area: UWSR*
- HIST 398 - Internship *Units: 1-3*
- HIST 400 - Historiography *Units: 4*
- HIST 405 - History Lab *Units: 1*
- HIST 409 - History Portfolio *Units: 1*
- HIST 499 - Thesis Capstone *Units: 4*

History: Additional Courses

- HIST 120 - Self and Story in World History *Units: 3 ; G.E./G.R. Area: D1-3*
- HIST 140 - Humanity, Science and Nature in History *Units: 3 ; G.E./G.R. Area: C2*
- HIST 410 - Internship in History *Units: 3*
- HIST 477 - History and Trends in Nursing *Units: 3 ; G.E./G.R. Area: C4*
- HIST 490 - Independent Study *Units: 3-4*
- HIST 497 - Issues in History *Units: 3*

Master

History, M.A.: Generalist Concentration

History, M.A. Program

Program Description

The Master of Arts degree in History is designed to meet the varied needs and interests of students seeking an advanced degree in history. The program educates students in advanced skills in historical research, writing, interpretation and research, and provides opportunities for training in teaching and public history. Four areas of concentration permit students to plan their coursework to best suit their goals within the overall program requirements and the range of courses offered. The program includes graduate course offerings in historical research and historiography, a portfolio course, reading seminars, graduate elective units, a scholarly practicum, and a culminating master's experience. Elective units may be taken in other fields with the approval of the History Graduate Coordinator. The Master's culminating experience may be a university thesis, examinations in major and minor fields, a public history project or a graduate teaching project, depending on the concentration chosen. Because the majority of students in the master's program are employed full-time during the day, graduate courses are offered in the evening, usually on a one-night-a-week basis, in fall and spring semesters. This schedule allows students time to complete regular assignments, carry on research, and make regular progress toward the M.A. degree.

Faculty

The History Department faculty includes specialists in Ancient, European, Asian, Latin American, U.S., U.S. West, and California history as well as the history of sustainability, the history of American diversity and social justice movements, world history, public history, and digital humanities. The full-time faculty are professional scholars, widely published in their respective fields and active in regional and national historical associations. The department has many years' experience in advising and training master's students in history.

Areas of Concentration

All History graduate students may complete their degrees with culminating examinations in a major and a minor field, selected in consultation with their graduate committees. Students may also choose one of three other areas of concentration: Teaching, Public History, or University Thesis. These concentrations are distinguished chiefly by their capstone projects, but the Teaching and Public History concentrations also include courses especially designed for the field. Students must apply to the department for permission to complete their programs in any of the four concentrations.

HIST 610 and 630

All graduate students are required to take HIST 610, Seminar in Historical Research, and HIST 630, Graduate Historiography. These two important seminars provide students with first-hand experience in primary source research in Bay Area collections and libraries and on the Internet, and with advanced knowledge of trends in the study of historical interpretation and writing, cross-cultural and interdisciplinary approaches to history, humanistic values in history and ethical standards. Students will take these two courses in their first year of study. Proficiency in information literacy is required for each course.

Reading Seminars

The reading seminars are courses in important and current historical scholarship in a specific subfield or topic. The topics of our reading courses will vary depending on the instructor, according to his or her specialty and interests. The goals of these courses are to enrich students' subject matter knowledge in a specific field, but, as importantly, to train them how to read, analyze, and critique works of academic history. As this are the goals of the reading courses in general, regardless of the students' or instructors' individual research interests, we have assigned one course number to the class.

Distinctive Features

The graduate degree offered at CSU East Bay is an M.A. in History, with the option to pursue different career tracks. Thus, students who are interested in teaching or public history, for example, will be educated as Historians, first and foremost, including training in archival research and historiography. Students are also exposed to, and encouraged to master, historical approaches for the digital age, thinking in fresh ways about pedagogy in the classroom and the public sphere. This is a key distinction of this program, and an important quality for the 21st century job market. Research opportunities in Bay Area and California history abound at the University of California, Berkeley; the Bancroft Library; the National Archives at San Bruno; and numerous private collections in the region. The University Library provides excellent reference, Internet, and interlibrary loan services and contains substantial print and microfilm holdings.

Career Opportunities

The master's program is especially suited to individuals interested in enhancing their careers as secondary school teachers, in qualifying as community college faculty, or training as historical editors, archivists, museum professionals and Bay Area or California historians. It is also useful for individuals interested in retraining for careers in history or in preparing for doctoral programs in history.

Admission Requirements

Admission to the master's program generally requires a B.A. degree major in History, or the equivalent, and a minimum GPA of 3.0 ("B") in the last two years of undergraduate work and 3.25 ("B+") in history. A one-page statement of purpose, a writing sample, and two letters of recommendation must accompany applications. Interested students with degrees in related disciplines, such as American Studies, Ethnic Studies, Political Science, Art or Theater History, and Literature, and suitable academic backgrounds in history are encouraged to apply but will be required to complete prerequisite coursework in history. Students without necessary background in research or writing may also be admitted to the program as "Conditionally Classified Graduate" students with the requirement that they complete HIST 400 and/or 401 at a specified grade level before being admitted to "Classified Graduate" status. Students meeting all admissions requirements and the University Writing Skills Requirement (UWSR) are eligible to be admitted as "Classified Graduate" students. Applicants should consult with the History Graduate Coordinator for advising. For information on meeting the required University Writing Skills Requirement, see the Testing Office website at www.csueastbay.edu/testing or call 510.885.3661.

Student Standing and Progress Toward the Degree

There are three categories of student status, which reflect student progress toward the degree: "Conditionally Classified Graduate" student, "Classified Graduate" student, and Advancement to Candidacy.

1. Generally, students admitted to the program receive "Classified Graduate" status if they have the required background in Historical studies and have met the UWSR.
2. Certain students may be admitted as "Conditionally Classified Graduate" when they do not yet possess the required background in historical studies as determined by the Graduate Committee of the department and/or have not met the UWSR. Those students must complete specified coursework (generally HIST 400 and 401 and possibly additional prerequisites) and satisfy the UWSR in order to receive "Classified Graduate" status.
3. Students are Advanced to Candidacy when they have completed a minimum of 15 units of master's coursework with a 3.0 or better cumulative GPA, and satisfied the University Writing Skills requirement.

Program Learning Outcomes

Students graduating with an M.A. in History from Cal State East Bay will be able to:

1. demonstrate advanced knowledge of United States history and the history of at least one other geographical region;
2. analyze major arguments and themes in contemporary historiography, cross-cultural and interdisciplinary approaches to historical study, and humanistic values and evaluate their validity;
3. make use of Bay Area research libraries, archives, special collections, and digital sources;
4. analyze both secondary and primary sources, and demonstrate advanced research abilities;
5. develop and compose a major independent research project in history;
6. design an individual portfolio showcasing advanced historical work and create work suitable for publication or presentation in your chosen field;
7. identify the standards of academic integrity and attribution of sources, and apply the values of the historical profession, including ethics and standards for work in research libraries, on the Internet, at professional conferences, and at interviews for employment.

History Degree Requirements (30 units)

Prerequisites or Foundation Requirements

A strong undergraduate background in history or related fields is expected. Reading proficiency in a foreign language is strongly encouraged, especially for those planning to pursue doctoral degrees or research careers.

Core Courses

Complete the following 16 units:

- HIST 600 - Reading Seminar in History *Units: 4*
- HIST 610 - Research Seminar *Units: 4*
- HIST 630 - Graduate Historiography *Units: 4*
- HIST 651 - Graduate Portfolio *Units: 2*
- HIST 652 - Scholarly Practicum *Units: 2*

Concentrations

Students must select one (1) of the following concentrations for 8 units:

- History, M.A.: Generalist Concentration
- History, M.A.: Public History Concentration
- History, M.A.: Teaching History Concentration
- History, M.A.: University Thesis Concentration

Capstone Requirements

A capstone course is required to complete the degree. Take the following capstone for 6 units as outlined for each concentration:

- HIST 691 - University Thesis *Units: 6 (University Thesis Concentration)*
- HIST 692 - Comprehensive Exam Review *Units: 6 (Generalist Concentration)*
- HIST 699 - Departmental Thesis *Units: 6 (Public History and Teaching History Concentrations)*

Generalist Concentration

Students must complete the following course two (2) additional times for 8 units:

- HIST 600 - Reading Seminar in History *Units: 4 (x2 for 8 units)*

Other Graduate & Post-Baccalaureate Degree Requirements

In addition to departmental requirements, every student must also satisfy the University requirements for graduation as described throughout this catalog. These include the 70% unit residence requirement; the five-year rule on currency of subject matter; the minimum number of units in 600-level courses; the "C" minimum grade for each graduate course; the 3.00 cumulative grade point average; and the University Writing Skills Requirement.

Note: For information on meeting the University Writing Skills Requirement, see the Testing Office website at www.csueastbay.edu/testing or call (510) 885-3661.

Department Courses Listed by Course Type

History Courses

Department of History

Go to information for this department.

Courses

History: Applied

- HIST 402 - Introduction to Public History *Units: 4*
- HIST 403 - Introduction to Digital Historical Methods *Units: 4*
- HIST 404 - Introduction to Teaching of History *Units: 4*

History: Lower Division

- HIST 101 - World History I *Units: 3 ; G.E./G.R. Area: C2*
- HIST 102 - World History II *Units: 3 ; G.E./G.R. Area: C2*
- HIST 110 - The United States to 1877 *Units: 3 ; G.E./G.R. Area: D1-3; US-1, US-2*
- HIST 111 - The United States Since 1877 *Units: 3 ; G.E./G.R. Area: D1-3; US-1, US-3*

History: Graduate

- HIST 600 - Reading Seminar in History *Units: 4*
- HIST 610 - Research Seminar *Units: 4*
- HIST 630 - Graduate Historiography *Units: 4*
- HIST 641 - Graduate Internship *Units: 4*
- HIST 642 - Public History Practicum *Units: 4*
- HIST 643 - Digital History Practicum *Units: 4*
- HIST 644 - Teaching History Practicum *Units: 4*
- HIST 651 - Graduate Portfolio *Units: 2*
- HIST 652 - Scholarly Practicum *Units: 2*
- HIST 690 - Independent Study *Units: 1-4*
- HIST 691 - University Thesis *Units: 6*
- HIST 692 - Comprehensive Exam Review *Units: 6*
- HIST 697 - Issues in History *Units: 4*
- HIST 699 - Departmental Thesis *Units: 6*

History: Migration and Globalization

- HIST 322 - Warfare, Genocide, Terrorism: Globalization Through Conflict Since 1914 *Units: 3 ; G.E./G.R. Area: C4*
- HIST 327 - Love, Sex, Family: Globalization and Private Life Since 1914 *Units: 3 ; G.E./G.R. Area: C4*
- HIST 328 - 20th Century World *Units: 3 ; G.E./G.R. Area: C4*
- HIST 331 - The Barbarians *Units: 3 ; G.E./G.R. Area: C4*
- HIST 336 - Ancient Greece *Units: 3 ; G.E./G.R. Area: C4*
- HIST 338 - The Roman Empire *Units: 3 ; G.E./G.R. Area: C4*
- HIST 344 - Revival and Reform in Early Modern Europe *Units: 3 ; G.E./G.R. Area: C4*

- HIST 352 - Modern Europe: Unity and Diversity *Units: 3 ; G.E./G.R. Area: C4*
- HIST 361 - Traditional India *Units: 3*
- HIST 362 - Modern South Asia *Units: 3 ; G.E./G.R. Area: C4*
- HIST 363 - The Middle East and the Rise of Islamic Societies *Units: 3 ; G.E./G.R. Area: C4*
- HIST 364 - The Modern Middle East *Units: 3 ; G.E./G.R. Area: C4*
- HIST 380 - The American West *Units: 3 ; G.E./G.R. Area: C4*
- HIST 383 - Mexican Americans in the West *Units: 3 ; G.E./G.R. Area: C4*
- HIST 387 - Immigration and the Contested American Identity *Units: 3 ; G.E./G.R. Area: C4*
- HIST 391 - Latin America: Conquest to Revolution *Units: 3 ; G.E./G.R. Area: C4*
- HIST 394 - US Mexico Relations Since 1810 *Units: 3*
- HIST 475 - The Pacific World *Units: 3*
- HIST 478 - Borderlands in North America *Units: 3 ; G.E./G.R. Area: C4*

History: Social Justice and Citizenship

- HIST 320 - Transnational Revolution in the Modern World *Units: 3*
- HIST 321 - Communism as Civilization *Units: 3*
- HIST 326 - Global Feminisms: A History *Units: 3*
- HIST 332 - Tolerance and Intolerance in the Roman Empire *Units: 3 ; G.E./G.R. Area: C4*
- HIST 335 - Rome and Christianity *Units: 3 ; G.E./G.R. Area: C4*
- HIST 342 - Unity and Diversity in the Middle Ages *Units: 3*
- HIST 343 - Society and Culture in the High Middle Ages *Units: 3 ; G.E./G.R. Area: C4*
- HIST 372 - Slavery and Freedom in the Atlantic World *Units: 3*
- HIST 373 - The American Revolution *Units: 3*
- HIST 374 - The Constitution and Its Times *Units: 3*
- HIST 375 - Religion and Diversity in America *Units: 3 ; G.E./G.R. Area: C4*
- HIST 376 - Destroying Slavery in the US Civil War *Units: 3*
- HIST 378 - The Nineteenth Century in the US *Units: 3 ; G.E./G.R. Area: C4*
- HIST 379 - Native North America *Units: 3*
- HIST 381 - US Political History *Units: 3*
- HIST 384 - Modern American Thought *Units: 3 ; G.E./G.R. Area: C4*
- HIST 385 - Race and the Modern American Nation *Units: 3*
- HIST 389 - Social Justice and Reform Movements in America *Units: 3 ; G.E./G.R. Area: D4;*

Social Justice

- HIST 393 - Revolutionary Thought in Latin America *Units: 3 ; G.E./G.R. Area: D4*
- HIST 461 - India Through Film *Units: 3*
- HIST 471 - History of the East Bay: Community Research and Engagement *Units: 3*
- HIST 472 - War and Peace in US History *Units: 3 ; G.E./G.R. Area: C4*
- HIST 473 - Sexuality and Identity in US History *Units: 3 ; G.E./G.R. Area: C4*
- HIST 474 - Women, Gender and Rights in US History *Units: 3 ; G.E./G.R. Area: C4*
- HIST 479 - World War II: Global Warfront, Local Homefront *Units: 3 ; G.E./G.R. Area: D4*
- HIST 488 - Education and American Democracy *Units: 3 ; G.E./G.R. Area: C4*

History: Sustainability and Modernization

- HIST 277 - Science and Culture in the History of Medicine in the United States *Units: 3 ; G.E./G.R. Area: C2; Writing II*
- HIST 323 - Global Environmental History *Units: 3 ; G.E./G.R. Area: C4*
- HIST 333 - Sustainability in the Ancient World *Units: 3 ; G.E./G.R. Area: C4; Sustainability*
- HIST 334 - Ancient Egyptian Civilization *Units: 3 ; G.E./G.R. Area: C4*
- HIST 337 - The Roman Republic *Units: 3 ; G.E./G.R. Area: C4*
- HIST 341 - The Birth of Europe *Units: 3 ; G.E./G.R. Area: C4*
- HIST 345 - Conflict and Expansion in Early Modern Europe *Units: 3*
- HIST 351 - Russia: Peter to the Present *Units: 3*

- HIST 365 - China: Origins to Mongol Conquest *Units: 3 ; G.E./G.R. Area: D4*
- HIST 366 - China: Ming Dynasty to Today *Units: 3 ; G.E./G.R. Area: C4*
- HIST 367 - Japan: Origins to Tokugawa *Units: 3 ; G.E./G.R. Area: C4*
- HIST 368 - Japan, Tokugawa to Today *Units: 3 ; G.E./G.R. Area: C4*
- HIST 369 - The Korean Peninsula *Units: 3 ; G.E./G.R. Area: C4*
- HIST 371 - North America: 1492-1850 *Units: 3 ; G.E./G.R. Area: C4*
- HIST 377 - The Birth of American Popular Culture *Units: 3*
- HIST 382 - California and the World *Units: 3 ; G.E./G.R. Area: D4; US-3*
- HIST 386 - Food and Justice in US History *Units: 3 ; G.E./G.R. Area: C4*
- HIST 388 - US and California Environmental History *Units: 3 ; G.E./G.R. Area: C4*
- HIST 392 - Migration and Modernization in 20th Century Mexico *Units: 3*

History: Skills Courses

- HIST 201 - Introduction to History *Units: 4*
- HIST 301 - Historical Writing *Units: 4 ; G.E./G.R. Area: UWSR*
- HIST 398 - Internship *Units: 1-3*
- HIST 400 - Historiography *Units: 4*
- HIST 405 - History Lab *Units: 1*
- HIST 409 - History Portfolio *Units: 1*
- HIST 499 - Thesis Capstone *Units: 4*

History: Additional Courses

- HIST 120 - Self and Story in World History *Units: 3 ; G.E./G.R. Area: D1-3*
- HIST 140 - Humanity, Science and Nature in History *Units: 3 ; G.E./G.R. Area: C2*
- HIST 410 - Internship in History *Units: 3*
- HIST 477 - History and Trends in Nursing *Units: 3 ; G.E./G.R. Area: C4*
- HIST 490 - Independent Study *Units: 3-4*
- HIST 497 - Issues in History *Units: 3*

History, M.A.: Public History Concentration

History, M.A. Program

Program Description

The Master of Arts degree in History is designed to meet the varied needs and interests of students seeking an advanced degree in history. The program educates students in advanced skills in historical research, writing, interpretation and research, and provides opportunities for training in teaching and public history. Four areas of concentration permit students to plan their coursework to best suit their goals within the overall program requirements and the range of courses offered. The program includes graduate course offerings in historical research and historiography, a portfolio course, reading seminars, graduate elective units, a scholarly practicum, and a culminating master's experience. Elective units may be taken in other fields with the approval of the History Graduate Coordinator. The Master's culminating experience may be a university thesis, examinations in major and minor fields, a public history project or a graduate teaching project, depending on the concentration chosen. Because the majority of students in the master's program are employed full-time during the day, graduate courses are offered in the evening, usually on a one-night-a-week basis, in fall and spring semesters. This schedule allows students time to complete regular assignments, carry on research, and make regular progress toward the M.A. degree.

Faculty

The History Department faculty includes specialists in Ancient, European, Asian, Latin American, U.S., U.S. West, and California history as well as the history of sustainability, the history of American diversity and social justice movements, world history, public history, and digital humanities. The full-time faculty are professional scholars, widely published in their respective fields and active in regional and national historical associations. The department has many years' experience in advising and training master's students in history.

Areas of Concentration

All History graduate students may complete their degrees with culminating examinations in a major and a minor field, selected in consultation with their graduate committees. Students may also choose one of three other areas of concentration: Teaching, Public History, or University Thesis. These concentrations are distinguished chiefly by their capstone projects, but the Teaching and Public History concentrations also include courses especially designed for the field. Students must apply to the department for permission to complete their programs in any of the four concentrations.

HIST 610 and 630

All graduate students are required to take HIST 610, Seminar in Historical Research, and HIST 630, Graduate Historiography. These two important seminars provide students with first-hand experience in primary source research in Bay Area collections and libraries and on the Internet, and with advanced knowledge of trends in the study of historical interpretation and writing, cross-cultural and interdisciplinary approaches to history, humanistic values in history and ethical standards. Students will take these two courses in their first year of study. Proficiency in information literacy is required for each course.

Reading Seminars

The reading seminars are courses in important and current historical scholarship in a specific subfield or topic. The topics of our reading courses will vary depending on the instructor, according to his or her specialty and interests. The goals of these courses are to enrich students' subject matter knowledge in a specific field, but, as importantly, to train them how to read, analyze, and critique works of academic history. As this are the goals of the reading courses in general, regardless of the students' or instructors' individual research interests, we have assigned one course number to the class.

Distinctive Features

The graduate degree offered at CSU East Bay is an M.A. in History, with the option to pursue different career tracks. Thus, students who are interested in teaching or public history, for example, will be educated as Historians, first and foremost, including training in archival research and historiography. Students are also exposed to, and encouraged to master, historical approaches for the digital age, thinking in fresh ways about pedagogy in the classroom and the public sphere. This is a key distinction of this program, and an important quality for the 21st century job market. Research opportunities in Bay Area and California history abound at the University of California, Berkeley; the Bancroft Library; the National Archives at San Bruno; and numerous private collections in the region. The University Library provides excellent reference, Internet, and interlibrary loan services and contains substantial print and microfilm holdings.

Career Opportunities

The master's program is especially suited to individuals interested in enhancing their careers as secondary school teachers, in qualifying as community college faculty, or training as historical editors, archivists, museum professionals and Bay Area or California historians. It is also useful for individuals interested in retraining for careers in history or in preparing for doctoral programs in history.

Admission Requirements

Admission to the master's program generally requires a B.A. degree major in History, or the equivalent, and a minimum GPA of 3.0 ("B") in the last two years of undergraduate work and 3.25 ("B+") in history. A one-page statement of purpose, a writing sample, and two letters of recommendation must accompany applications. Interested students with degrees in related disciplines, such as American Studies, Ethnic Studies, Political Science, Art or Theater History, and Literature, and suitable academic backgrounds in history are encouraged to apply but will be required to complete prerequisite coursework in history. Students without necessary background in research or writing may also be admitted to the program as "Conditionally Classified Graduate" students with the requirement that they complete HIST 400 and/or 401 at a specified grade level before being admitted to "Classified Graduate" status. Students meeting all admissions requirements and the University Writing Skills Requirement (UWSR) are eligible to be admitted as "Classified Graduate" students. Applicants should consult with the History Graduate Coordinator for advising. For information on meeting the required University Writing Skills Requirement, see the Testing Office website at www.csueastbay.edu/testing or call 510.885.3661.

Student Standing and Progress Toward the Degree

There are three categories of student status, which reflect student progress toward the degree: "Conditionally Classified Graduate" student, "Classified Graduate" student, and Advancement to Candidacy.

1. Generally, students admitted to the program receive "Classified Graduate" status if they have the required background in Historical studies and have met the UWSR.
2. Certain students may be admitted as "Conditionally Classified Graduate" when they do not yet possess the required background in historical studies as determined by the Graduate Committee of the department and/or have not met the UWSR. Those students must complete specified coursework (generally HIST 400 and 401 and possibly additional prerequisites) and satisfy the UWSR in order to receive "Classified Graduate" status.
3. Students are Advanced to Candidacy when they have completed a minimum of 15 units of master's coursework with a 3.0 or better cumulative GPA, and satisfied the University Writing Skills requirement.

Program Learning Outcomes

Students graduating with an M.A. in History from Cal State East Bay will be able to:

1. demonstrate advanced knowledge of United States history and the history of at least one other geographical region;
2. analyze major arguments and themes in contemporary historiography, cross-cultural and interdisciplinary approaches to historical study, and humanistic values and evaluate their validity;
3. make use of Bay Area research libraries, archives, special collections, and digital sources;

4. analyze both secondary and primary sources, and demonstrate advanced research abilities;
5. develop and compose a major independent research project in history;
6. design an individual portfolio showcasing advanced historical work and create work suitable for publication or presentation in your chosen field;
7. identify the standards of academic integrity and attribution of sources, and apply the values of the historical profession, including ethics and standards for work in research libraries, on the Internet, at professional conferences, and at interviews for employment.

History Degree Requirements (30 units)

Prerequisites or Foundation Requirements

A strong undergraduate background in history or related fields is expected. Reading proficiency in a foreign language is strongly encouraged, especially for those planning to pursue doctoral degrees or research careers.

Core Courses

Complete the following 16 units:

- HIST 600 - Reading Seminar in History *Units: 4*
- HIST 610 - Research Seminar *Units: 4*
- HIST 630 - Graduate Historiography *Units: 4*
- HIST 651 - Graduate Portfolio *Units: 2*
- HIST 652 - Scholarly Practicum *Units: 2*

Concentrations

Students must select one (1) of the following concentrations for 8 units:

- History, M.A.: Generalist Concentration
- History, M.A.: Public History Concentration
- History, M.A.: Teaching History Concentration
- History, M.A.: University Thesis Concentration

Capstone Requirements

A capstone course is required to complete the degree. Take the following capstone for 6 units as outlined for each concentration:

- HIST 691 - University Thesis *Units: 6 (University Thesis Concentration)*
- HIST 692 - Comprehensive Exam Review *Units: 6 (Generalist Concentration)*
- HIST 699 - Departmental Thesis *Units: 6 (Public History and Teaching History Concentrations)*

Public History Concentration

Students are required to complete 8 units from the following to fulfill the concentration:

- HIST 402 - Introduction to Public History *Units: 4 OR (with advisor permission)*
- HIST 403 - Introduction to Digital Historical Methods *Units: 4*

Plus, choose one (1) of the following courses:

- HIST 641 - Graduate Internship *Units: 4*
- HIST 642 - Public History Practicum *Units: 4*
- HIST 643 - Digital History Practicum *Units: 4*

Other Graduate & Post-Baccalaureate Degree Requirements

In addition to departmental requirements, every student must also satisfy the University requirements for graduation as described throughout this catalog. These include the 70% unit residence requirement; the five-year rule on currency of subject matter; the minimum number of units in 600-level courses; the "C" minimum grade for each graduate course; the 3.00 cumulative grade point average; and the University Writing Skills Requirement.

Note: For information on meeting the University Writing Skills Requirement, see the Testing Office website at www.csueastbay.edu/testing or call (510) 885-3661.

Department Courses Listed by Course Type

History Courses

Department of History

Go to information for this department.

Courses

History: Applied

- HIST 402 - Introduction to Public History *Units: 4*
- HIST 403 - Introduction to Digital Historical Methods *Units: 4*
- HIST 404 - Introduction to Teaching of History *Units: 4*

History: Lower Division

- HIST 101 - World History I *Units: 3 ; G.E./G.R. Area: C2*
- HIST 102 - World History II *Units: 3 ; G.E./G.R. Area: C2*
- HIST 110 - The United States to 1877 *Units: 3 ; G.E./G.R. Area: D1-3; US-1, US-2*
- HIST 111 - The United States Since 1877 *Units: 3 ; G.E./G.R. Area: D1-3; US-1, US-3*

History: Graduate

- HIST 600 - Reading Seminar in History *Units: 4*
- HIST 610 - Research Seminar *Units: 4*
- HIST 630 - Graduate Historiography *Units: 4*
- HIST 641 - Graduate Internship *Units: 4*
- HIST 642 - Public History Practicum *Units: 4*
- HIST 643 - Digital History Practicum *Units: 4*
- HIST 644 - Teaching History Practicum *Units: 4*

- HIST 651 - Graduate Portfolio *Units: 2*
- HIST 652 - Scholarly Practicum *Units: 2*
- HIST 690 - Independent Study *Units: 1-4*
- HIST 691 - University Thesis *Units: 6*
- HIST 692 - Comprehensive Exam Review *Units: 6*
- HIST 697 - Issues in History *Units: 4*
- HIST 699 - Departmental Thesis *Units: 6*

History: Migration and Globalization

- HIST 322 - Warfare, Genocide, Terrorism: Globalization Through Conflict Since 1914 *Units: 3 ; G.E./G.R. Area: C4*
- HIST 327 - Love, Sex, Family: Globalization and Private Life Since 1914 *Units: 3 ; G.E./G.R. Area: C4*
- HIST 328 - 20th Century World *Units: 3 ; G.E./G.R. Area: C4*
- HIST 331 - The Barbarians *Units: 3 ; G.E./G.R. Area: C4*
- HIST 336 - Ancient Greece *Units: 3 ; G.E./G.R. Area: C4*
- HIST 338 - The Roman Empire *Units: 3 ; G.E./G.R. Area: C4*
- HIST 344 - Revival and Reform in Early Modern Europe *Units: 3 ; G.E./G.R. Area: C4*
- HIST 352 - Modern Europe: Unity and Diversity *Units: 3 ; G.E./G.R. Area: C4*
- HIST 361 - Traditional India *Units: 3*
- HIST 362 - Modern South Asia *Units: 3 ; G.E./G.R. Area: C4*
- HIST 363 - The Middle East and the Rise of Islamic Societies *Units: 3 ; G.E./G.R. Area: C4*
- HIST 364 - The Modern Middle East *Units: 3 ; G.E./G.R. Area: C4*
- HIST 380 - The American West *Units: 3 ; G.E./G.R. Area: C4*
- HIST 383 - Mexican Americans in the West *Units: 3 ; G.E./G.R. Area: C4*
- HIST 387 - Immigration and the Contested American Identity *Units: 3 ; G.E./G.R. Area: C4*
- HIST 391 - Latin America: Conquest to Revolution *Units: 3 ; G.E./G.R. Area: C4*
- HIST 394 - US Mexico Relations Since 1810 *Units: 3*
- HIST 475 - The Pacific World *Units: 3*
- HIST 478 - Borderlands in North America *Units: 3 ; G.E./G.R. Area: C4*

History: Social Justice and Citizenships

- HIST 320 - Transnational Revolution in the Modern World *Units: 3*
 - HIST 321 - Communism as Civilization *Units: 3*
 - HIST 326 - Global Feminisms: A History *Units: 3*
 - HIST 332 - Tolerance and Intolerance in the Roman Empire *Units: 3 ; G.E./G.R. Area: C4*
 - HIST 335 - Rome and Christianity *Units: 3 ; G.E./G.R. Area: C4*
 - HIST 342 - Unity and Diversity in the Middle Ages *Units: 3*
 - HIST 343 - Society and Culture in the High Middle Ages *Units: 3 ; G.E./G.R. Area: C4*
 - HIST 372 - Slavery and Freedom in the Atlantic World *Units: 3*
 - HIST 373 - The American Revolution *Units: 3*
 - HIST 374 - The Constitution and Its Times *Units: 3*
 - HIST 375 - Religion and Diversity in America *Units: 3 ; G.E./G.R. Area: C4*
 - HIST 376 - Destroying Slavery in the US Civil War *Units: 3*
 - HIST 378 - The Nineteenth Century in the US *Units: 3 ; G.E./G.R. Area: C4*
 - HIST 379 - Native North America *Units: 3*
 - HIST 381 - US Political History *Units: 3*
 - HIST 384 - Modern American Thought *Units: 3 ; G.E./G.R. Area: C4*
 - HIST 385 - Race and the Modern American Nation *Units: 3*
 - HIST 389 - Social Justice and Reform Movements in America *Units: 3 ; G.E./G.R. Area: D4;*
- Social Justice*
- HIST 393 - Revolutionary Thought in Latin America *Units: 3 ; G.E./G.R. Area: D4*

- HIST 461 - India Through Film *Units: 3*
- HIST 471 - History of the East Bay: Community Research and Engagement *Units: 3*
- HIST 472 - War and Peace in US History *Units: 3 ; G.E./G.R. Area: C4*
- HIST 473 - Sexuality and Identity in US History *Units: 3 ; G.E./G.R. Area: C4*
- HIST 474 - Women, Gender and Rights in US History *Units: 3 ; G.E./G.R. Area: C4*
- HIST 479 - World War II: Global Warfront, Local Homefront *Units: 3 ; G.E./G.R. Area: D4*
- HIST 488 - Education and American Democracy *Units: 3 ; G.E./G.R. Area: C4*

History: Sustainability and Modernization

- HIST 277 - Science and Culture in the History of Medicine in the United States *Units: 3 ; G.E./G.R. Area: C2; Writing II*
- HIST 323 - Global Environmental History *Units: 3 ; G.E./G.R. Area: C4*
- HIST 333 - Sustainability in the Ancient World *Units: 3 ; G.E./G.R. Area: C4; Sustainability*
- HIST 334 - Ancient Egyptian Civilization *Units: 3 ; G.E./G.R. Area: C4*
- HIST 337 - The Roman Republic *Units: 3 ; G.E./G.R. Area: C4*
- HIST 341 - The Birth of Europe *Units: 3 ; G.E./G.R. Area: C4*
- HIST 345 - Conflict and Expansion in Early Modern Europe *Units: 3*
- HIST 351 - Russia: Peter to the Present *Units: 3*
- HIST 365 - China: Origins to Mongol Conquest *Units: 3 ; G.E./G.R. Area: D4*
- HIST 366 - China: Ming Dynasty to Today *Units: 3 ; G.E./G.R. Area: C4*
- HIST 367 - Japan: Origins to Tokugawa *Units: 3 ; G.E./G.R. Area: C4*
- HIST 368 - Japan, Tokugawa to Today *Units: 3 ; G.E./G.R. Area: C4*
- HIST 369 - The Korean Peninsula *Units: 3 ; G.E./G.R. Area: C4*
- HIST 371 - North America: 1492-1850 *Units: 3 ; G.E./G.R. Area: C4*
- HIST 377 - The Birth of American Popular Culture *Units: 3*
- HIST 382 - California and the World *Units: 3 ; G.E./G.R. Area: D4; US-3*
- HIST 386 - Food and Justice in US History *Units: 3 ; G.E./G.R. Area: C4*
- HIST 388 - US and California Environmental History *Units: 3 ; G.E./G.R. Area: C4*
- HIST 392 - Migration and Modernization in 20th Century Mexico *Units: 3*

History: Skills Courses

- HIST 201 - Introduction to History *Units: 4*
- HIST 301 - Historical Writing *Units: 4 ; G.E./G.R. Area: UWSR*
- HIST 398 - Internship *Units: 1-3*
- HIST 400 - Historiography *Units: 4*
- HIST 405 - History Lab *Units: 1*
- HIST 409 - History Portfolio *Units: 1*
- HIST 499 - Thesis Capstone *Units: 4*

History: Additional Courses

- HIST 120 - Self and Story in World History *Units: 3 ; G.E./G.R. Area: D1-3*
- HIST 140 - Humanity, Science and Nature in History *Units: 3 ; G.E./G.R. Area: C2*
- HIST 410 - Internship in History *Units: 3*
- HIST 477 - History and Trends in Nursing *Units: 3 ; G.E./G.R. Area: C4*
- HIST 490 - Independent Study *Units: 3-4*
- HIST 497 - Issues in History *Units: 3*

History, M.A.: Teaching History Concentration

History, M.A. Program

Program Description

The Master of Arts degree in History is designed to meet the varied needs and interests of students seeking an advanced degree in history. The program educates students in advanced skills in historical research, writing, interpretation and research, and provides opportunities for training in teaching and public history. Four areas of concentration permit students to plan their coursework to best suit their goals within the overall program requirements and the range of courses offered. The program includes graduate course offerings in historical research and historiography, a portfolio course, reading seminars, graduate elective units, a scholarly practicum, and a culminating master's experience. Elective units may be taken in other fields with the approval of the History Graduate Coordinator. The Master's culminating experience may be a university thesis, examinations in major and minor fields, a public history project or a graduate teaching project, depending on the concentration chosen. Because the majority of students in the master's program are employed full-time during the day, graduate courses are offered in the evening, usually on a one-night-a-week basis, in fall and spring semesters. This schedule allows students time to complete regular assignments, carry on research, and make regular progress toward the M.A. degree.

Faculty

The History Department faculty includes specialists in Ancient, European, Asian, Latin American, U.S., U.S. West, and California history as well as the history of sustainability, the history of American diversity and social justice movements, world history, public history, and digital humanities. The full-time faculty are professional scholars, widely published in their respective fields and active in regional and national historical associations. The department has many years' experience in advising and training master's students in history.

Areas of Concentration

All History graduate students may complete their degrees with culminating examinations in a major and a minor field, selected in consultation with their graduate committees. Students may also choose one of three other areas of concentration: Teaching, Public History, or University Thesis. These concentrations are distinguished chiefly by their capstone projects, but the Teaching and Public History concentrations also include courses especially designed for the field. Students must apply to the department for permission to complete their programs in any of the four concentrations.

HIST 610 and 630

All graduate students are required to take HIST 610, Seminar in Historical Research, and HIST 630, Graduate Historiography. These two important seminars provide students with first-hand experience in primary source research in Bay Area collections and libraries and on the Internet, and with advanced knowledge of trends in the study of historical interpretation and writing, cross-cultural and interdisciplinary approaches to history, humanistic values in history and ethical standards. Students will take these two courses in their first year of study. Proficiency in information literacy is required for each course.

Reading Seminars

The reading seminars are courses in important and current historical scholarship in a specific subfield or topic. The topics of our reading courses will vary depending on the instructor, according to his or her

specialty and interests. The goals of these courses are to enrich students' subject matter knowledge in a specific field, but, as importantly, to train them how to read, analyze, and critique works of academic history. As this are the goals of the reading courses in general, regardless of the students' or instructors' individual research interests, we have assigned one course number to the class.

Distinctive Features

The graduate degree offered at CSU East Bay is an M.A. in History, with the option to pursue different career tracks. Thus, students who are interested in teaching or public history, for example, will be educated as Historians, first and foremost, including training in archival research and historiography. Students are also exposed to, and encouraged to master, historical approaches for the digital age, thinking in fresh ways about pedagogy in the classroom and the public sphere. This is a key distinction of this program, and an important quality for the 21st century job market. Research opportunities in Bay Area and California history abound at the University of California, Berkeley; the Bancroft Library; the National Archives at San Bruno; and numerous private collections in the region. The University Library provides excellent reference, Internet, and interlibrary loan services and contains substantial print and microfilm holdings.

Career Opportunities

The master's program is especially suited to individuals interested in enhancing their careers as secondary school teachers, in qualifying as community college faculty, or training as historical editors, archivists, museum professionals and Bay Area or California historians. It is also useful for individuals interested in retraining for careers in history or in preparing for doctoral programs in history.

Admission Requirements

Admission to the master's program generally requires a B.A. degree major in History, or the equivalent, and a minimum GPA of 3.0 ("B") in the last two years of undergraduate work and 3.25 ("B+") in history. A one-page statement of purpose, a writing sample, and two letters of recommendation must accompany applications. Interested students with degrees in related disciplines, such as American Studies, Ethnic Studies, Political Science, Art or Theater History, and Literature, and suitable academic backgrounds in history are encouraged to apply but will be required to complete prerequisite coursework in history. Students without necessary background in research or writing may also be admitted to the program as "Conditionally Classified Graduate" students with the requirement that they complete HIST 400 and/or 401 at a specified grade level before being admitted to "Classified Graduate" status. Students meeting all admissions requirements and the University Writing Skills Requirement (UWSR) are eligible to be admitted as "Classified Graduate" students. Applicants should consult with the History Graduate Coordinator for advising. For information on meeting the required University Writing Skills Requirement, see the Testing Office website at www.csueastbay.edu/testing or call 510.885.3661.

Student Standing and Progress Toward the Degree

There are three categories of student status, which reflect student progress toward the degree: "Conditionally Classified Graduate" student, "Classified Graduate" student, and Advancement to Candidacy.

1. Generally, students admitted to the program receive "Classified Graduate" status if they have the required background in Historical studies and have met the UWSR.

2. Certain students may be admitted as "Conditionally Classified Graduate" when they do not yet possess the required background in historical studies as determined by the Graduate Committee of the department and/or have not met the UWSR. Those students must complete specified coursework (generally HIST 400 and 401 and possibly additional prerequisites) and satisfy the UWSR in order to receive "Classified Graduate" status.
3. Students are Advanced to Candidacy when they have completed a minimum of 15 units of master's coursework with a 3.0 or better cumulative GPA, and satisfied the University Writing Skills requirement.

Program Learning Outcomes

Students graduating with an M.A. in History from Cal State East Bay will be able to:

1. demonstrate advanced knowledge of United States history and the history of at least one other geographical region;
2. analyze major arguments and themes in contemporary historiography, cross-cultural and interdisciplinary approaches to historical study, and humanistic values and evaluate their validity;
3. make use of Bay Area research libraries, archives, special collections, and digital sources;
4. analyze both secondary and primary sources, and demonstrate advanced research abilities;
5. develop and compose a major independent research project in history;
6. design an individual portfolio showcasing advanced historical work and create work suitable for publication or presentation in your chosen field;
7. identify the standards of academic integrity and attribution of sources, and apply the values of the historical profession, including ethics and standards for work in research libraries, on the Internet, at professional conferences, and at interviews for employment.

History Degree Requirements (30 units)

Prerequisites or Foundation Requirements

A strong undergraduate background in history or related fields is expected. Reading proficiency in a foreign language is strongly encouraged, especially for those planning to pursue doctoral degrees or research careers.

Core Courses

Complete the following 16 units:

- HIST 600 - Reading Seminar in History *Units: 4*
- HIST 610 - Research Seminar *Units: 4*
- HIST 630 - Graduate Historiography *Units: 4*
- HIST 651 - Graduate Portfolio *Units: 2*
- HIST 652 - Scholarly Practicum *Units: 2*

Concentrations

Students must select one (1) of the following concentrations for 8 units:

- History, M.A.: Generalist Concentration

- History, M.A.: Public History Concentration
- History, M.A.: Teaching History Concentration
- History, M.A.: University Thesis Concentration

Capstone Requirements

A capstone course is required to complete the degree. Take the following capstone for 6 units as outlined for each concentration:

- HIST 691 - University Thesis *Units: 6 (University Thesis Concentration)*
- HIST 692 - Comprehensive Exam Review *Units: 6 (Generalist Concentration)*
- HIST 699 - Departmental Thesis *Units: 6 (Public History and Teaching History Concentrations)*

Teaching History Concentration

Students are required to complete 8 units from the following to fulfill the concentration:

- HIST 600 - Reading Seminar in History *Units: 4*

Plus, one (1) from the following:

- HIST 404 - Introduction to Teaching of History *Units: 4*
- HIST 644 - Teaching History Practicum *Units: 4*

Other Graduate & Post-Baccalaureate Degree Requirements

In addition to departmental requirements, every student must also satisfy the University requirements for graduation as described throughout this catalog. These include the 70% unit residence requirement; the five-year rule on currency of subject matter; the minimum number of units in 600-level courses; the "C" minimum grade for each graduate course; the 3.00 cumulative grade point average; and the University Writing Skills Requirement.

Note: For information on meeting the University Writing Skills Requirement, see the Testing Office website at www.csueastbay.edu/testing or call (510) 885-3661.

Department Courses Listed by Course Type

History Courses

Department of History

Go to information for this department.

Courses

History: Applied

- HIST 402 - Introduction to Public History *Units: 4*

- HIST 403 - Introduction to Digital Historical Methods *Units: 4*
- HIST 404 - Introduction to Teaching of History *Units: 4*

History: Lower Division

- HIST 101 - World History I *Units: 3 ; G.E./G.R. Area: C2*
- HIST 102 - World History II *Units: 3 ; G.E./G.R. Area: C2*
- HIST 110 - The United States to 1877 *Units: 3 ; G.E./G.R. Area: D1-3; US-1, US-2*
- HIST 111 - The United States Since 1877 *Units: 3 ; G.E./G.R. Area: D1-3; US-1, US-3*

History: Graduate

- HIST 600 - Reading Seminar in History *Units: 4*
- HIST 610 - Research Seminar *Units: 4*
- HIST 630 - Graduate Historiography *Units: 4*
- HIST 641 - Graduate Internship *Units: 4*
- HIST 642 - Public History Practicum *Units: 4*
- HIST 643 - Digital History Practicum *Units: 4*
- HIST 644 - Teaching History Practicum *Units: 4*
- HIST 651 - Graduate Portfolio *Units: 2*
- HIST 652 - Scholarly Practicum *Units: 2*
- HIST 690 - Independent Study *Units: 1-4*
- HIST 691 - University Thesis *Units: 6*
- HIST 692 - Comprehensive Exam Review *Units: 6*
- HIST 697 - Issues in History *Units: 4*
- HIST 699 - Departmental Thesis *Units: 6*

History: Migration and Globalization

- HIST 322 - Warfare, Genocide, Terrorism: Globalization Through Conflict Since 1914 *Units: 3 ; G.E./G.R. Area: C4*
- HIST 327 - Love, Sex, Family: Globalization and Private Life Since 1914 *Units: 3 ; G.E./G.R. Area: C4*
- HIST 328 - 20th Century World *Units: 3 ; G.E./G.R. Area: C4*
- HIST 331 - The Barbarians *Units: 3 ; G.E./G.R. Area: C4*
- HIST 336 - Ancient Greece *Units: 3 ; G.E./G.R. Area: C4*
- HIST 338 - The Roman Empire *Units: 3 ; G.E./G.R. Area: C4*
- HIST 344 - Revival and Reform in Early Modern Europe *Units: 3 ; G.E./G.R. Area: C4*
- HIST 352 - Modern Europe: Unity and Diversity *Units: 3 ; G.E./G.R. Area: C4*
- HIST 361 - Traditional India *Units: 3*
- HIST 362 - Modern South Asia *Units: 3 ; G.E./G.R. Area: C4*
- HIST 363 - The Middle East and the Rise of Islamic Societies *Units: 3 ; G.E./G.R. Area: C4*
- HIST 364 - The Modern Middle East *Units: 3 ; G.E./G.R. Area: C4*
- HIST 380 - The American West *Units: 3 ; G.E./G.R. Area: C4*
- HIST 383 - Mexican Americans in the West *Units: 3 ; G.E./G.R. Area: C4*
- HIST 387 - Immigration and the Contested American Identity *Units: 3 ; G.E./G.R. Area: C4*
- HIST 391 - Latin America: Conquest to Revolution *Units: 3 ; G.E./G.R. Area: C4*
- HIST 394 - US Mexico Relations Since 1810 *Units: 3*
- HIST 475 - The Pacific World *Units: 3*
- HIST 478 - Borderlands in North America *Units: 3 ; G.E./G.R. Area: C4*

History: Social Justice and Citizenships

- HIST 320 - Transnational Revolution in the Modern World *Units: 3*
- HIST 321 - Communism as Civilization *Units: 3*
- HIST 326 - Global Feminisms: A History *Units: 3*

- HIST 332 - Tolerance and Intolerance in the Roman Empire *Units: 3 ; G.E./G.R. Area: C4*
- HIST 335 - Rome and Christianity *Units: 3 ; G.E./G.R. Area: C4*
- HIST 342 - Unity and Diversity in the Middle Ages *Units: 3*
- HIST 343 - Society and Culture in the High Middle Ages *Units: 3 ; G.E./G.R. Area: C4*
- HIST 372 - Slavery and Freedom in the Atlantic World *Units: 3*
- HIST 373 - The American Revolution *Units: 3*
- HIST 374 - The Constitution and Its Times *Units: 3*
- HIST 375 - Religion and Diversity in America *Units: 3 ; G.E./G.R. Area: C4*
- HIST 376 - Destroying Slavery in the US Civil War *Units: 3*
- HIST 378 - The Nineteenth Century in the US *Units: 3 ; G.E./G.R. Area: C4*
- HIST 379 - Native North America *Units: 3*
- HIST 381 - US Political History *Units: 3*
- HIST 384 - Modern American Thought *Units: 3 ; G.E./G.R. Area: C4*
- HIST 385 - Race and the Modern American Nation *Units: 3*
- HIST 389 - Social Justice and Reform Movements in America *Units: 3 ; G.E./G.R. Area: D4;*

Social Justice

- HIST 393 - Revolutionary Thought in Latin America *Units: 3 ; G.E./G.R. Area: D4*
- HIST 461 - India Through Film *Units: 3*
- HIST 471 - History of the East Bay: Community Research and Engagement *Units: 3*
- HIST 472 - War and Peace in US History *Units: 3 ; G.E./G.R. Area: C4*
- HIST 473 - Sexuality and Identity in US History *Units: 3 ; G.E./G.R. Area: C4*
- HIST 474 - Women, Gender and Rights in US History *Units: 3 ; G.E./G.R. Area: C4*
- HIST 479 - World War II: Global Warfront, Local Homefront *Units: 3 ; G.E./G.R. Area: D4*
- HIST 488 - Education and American Democracy *Units: 3 ; G.E./G.R. Area: C4*

History: Sustainability and Modernization

- HIST 277 - Science and Culture in the History of Medicine in the United States *Units: 3 ; G.E./G.R. Area: C2; Writing II*
- HIST 323 - Global Environmental History *Units: 3 ; G.E./G.R. Area: C4*
- HIST 333 - Sustainability in the Ancient World *Units: 3 ; G.E./G.R. Area: C4; Sustainability*
- HIST 334 - Ancient Egyptian Civilization *Units: 3 ; G.E./G.R. Area: C4*
- HIST 337 - The Roman Republic *Units: 3 ; G.E./G.R. Area: C4*
- HIST 341 - The Birth of Europe *Units: 3 ; G.E./G.R. Area: C4*
- HIST 345 - Conflict and Expansion in Early Modern Europe *Units: 3*
- HIST 351 - Russia: Peter to the Present *Units: 3*
- HIST 365 - China: Origins to Mongol Conquest *Units: 3 ; G.E./G.R. Area: D4*
- HIST 366 - China: Ming Dynasty to Today *Units: 3 ; G.E./G.R. Area: C4*
- HIST 367 - Japan: Origins to Tokugawa *Units: 3 ; G.E./G.R. Area: C4*
- HIST 368 - Japan, Tokugawa to Today *Units: 3 ; G.E./G.R. Area: C4*
- HIST 369 - The Korean Peninsula *Units: 3 ; G.E./G.R. Area: C4*
- HIST 371 - North America: 1492-1850 *Units: 3 ; G.E./G.R. Area: C4*
- HIST 377 - The Birth of American Popular Culture *Units: 3*
- HIST 382 - California and the World *Units: 3 ; G.E./G.R. Area: D4; US-3*
- HIST 386 - Food and Justice in US History *Units: 3 ; G.E./G.R. Area: C4*
- HIST 388 - US and California Environmental History *Units: 3 ; G.E./G.R. Area: C4*
- HIST 392 - Migration and Modernization in 20th Century Mexico *Units: 3*

History: Skills Courses

- HIST 201 - Introduction to History *Units: 4*
- HIST 301 - Historical Writing *Units: 4 ; G.E./G.R. Area: UWSR*
- HIST 398 - Internship *Units: 1-3*
- HIST 400 - Historiography *Units: 4*

- HIST 405 - History Lab *Units: 1*
- HIST 409 - History Portfolio *Units: 1*
- HIST 499 - Thesis Capstone *Units: 4*

History: Additional Courses

- HIST 120 - Self and Story in World History *Units: 3 ; G.E./G.R. Area: D1-3*
- HIST 140 - Humanity, Science and Nature in History *Units: 3 ; G.E./G.R. Area: C2*
- HIST 410 - Internship in History *Units: 3*
- HIST 477 - History and Trends in Nursing *Units: 3 ; G.E./G.R. Area: C4*
- HIST 490 - Independent Study *Units: 3-4*
- HIST 497 - Issues in History *Units: 3*

History, M.A.: University Thesis Concentration

History, M.A. Program

Program Description

The Master of Arts degree in History is designed to meet the varied needs and interests of students seeking an advanced degree in history. The program educates students in advanced skills in historical research, writing, interpretation and research, and provides opportunities for training in teaching and public history. Four areas of concentration permit students to plan their coursework to best suit their goals within the overall program requirements and the range of courses offered. The program includes graduate course offerings in historical research and historiography, a portfolio course, reading seminars, graduate elective units, a scholarly practicum, and a culminating master's experience. Elective units may be taken in other fields with the approval of the History Graduate Coordinator. The Master's culminating experience may be a university thesis, examinations in major and minor fields, a public history project or a graduate teaching project, depending on the concentration chosen. Because the majority of students in the master's program are employed full-time during the day, graduate courses are offered in the evening, usually on a one-night-a-week basis, in fall and spring semesters. This schedule allows students time to complete regular assignments, carry on research, and make regular progress toward the M.A. degree.

Faculty

The History Department faculty includes specialists in Ancient, European, Asian, Latin American, U.S., U.S. West, and California history as well as the history of sustainability, the history of American diversity and social justice movements, world history, public history, and digital humanities. The full-time faculty are professional scholars, widely published in their respective fields and active in regional and national historical associations. The department has many years' experience in advising and training master's students in history.

Areas of Concentration

All History graduate students may complete their degrees with culminating examinations in a major and a minor field, selected in consultation with their graduate committees. Students may also choose one of three other areas of concentration: Teaching, Public History, or University Thesis. These concentrations are distinguished chiefly by their capstone projects, but the Teaching and Public History concentrations also include courses especially designed for the field. Students must apply to the department for permission to complete their programs in any of the four concentrations.

HIST 610 and 630

All graduate students are required to take HIST 610, Seminar in Historical Research, and HIST 630, Graduate Historiography. These two important seminars provide students with first-hand experience in primary source research in Bay Area collections and libraries and on the Internet, and with advanced knowledge of trends in the study of historical interpretation and writing, cross-cultural and interdisciplinary approaches to history, humanistic values in history and ethical standards. Students will take these two courses in their first year of study. Proficiency in information literacy is required for each course.

Reading Seminars

The reading seminars are courses in important and current historical scholarship in a specific subfield or topic. The topics of our reading courses will vary depending on the instructor, according to his or her specialty and interests. The goals of these courses are to enrich students' subject matter knowledge in a specific field, but, as importantly, to train them how to read, analyze, and critique works of academic history. As this are the goals of the reading courses in general, regardless of the students' or instructors' individual research interests, we have assigned one course number to the class.

Distinctive Features

The graduate degree offered at CSU East Bay is an M.A. in History, with the option to pursue different career tracks. Thus, students who are interested in teaching or public history, for example, will be educated as Historians, first and foremost, including training in archival research and historiography. Students are also exposed to, and encouraged to master, historical approaches for the digital age, thinking in fresh ways about pedagogy in the classroom and the public sphere. This is a key distinction of this program, and an important quality for the 21st century job market. Research opportunities in Bay Area and California history abound at the University of California, Berkeley; the Bancroft Library; the National Archives at San Bruno; and numerous private collections in the region. The University Library provides excellent reference, Internet, and interlibrary loan services and contains substantial print and microfilm holdings.

Career Opportunities

The master's program is especially suited to individuals interested in enhancing their careers as secondary school teachers, in qualifying as community college faculty, or training as historical editors, archivists, museum professionals and Bay Area or California historians. It is also useful for individuals interested in retraining for careers in history or in preparing for doctoral programs in history.

Admission Requirements

Admission to the master's program generally requires a B.A. degree major in History, or the equivalent, and a minimum GPA of 3.0 ("B") in the last two years of undergraduate work and 3.25 ("B+") in history. A one-page statement of purpose, a writing sample, and two letters of recommendation must accompany applications. Interested students with degrees in related disciplines, such as American Studies, Ethnic Studies, Political Science, Art or Theater History, and Literature, and suitable academic backgrounds in history are encouraged to apply but will be required to complete prerequisite coursework in history. Students without necessary background in research or writing may also be admitted to the program as

"Conditionally Classified Graduate" students with the requirement that they complete HIST 400 and/or 401 at a specified grade level before being admitted to "Classified Graduate" status. Students meeting all admissions requirements and the University Writing Skills Requirement (UWSR) are eligible to be admitted as "Classified Graduate" students. Applicants should consult with the History Graduate Coordinator for advising. For information on meeting the required University Writing Skills Requirement, see the Testing Office website at www.csueastbay.edu/testing or call 510.885.3661.

Student Standing and Progress Toward the Degree

There are three categories of student status, which reflect student progress toward the degree: "Conditionally Classified Graduate" student, "Classified Graduate" student, and Advancement to Candidacy.

1. Generally, students admitted to the program receive "Classified Graduate" status if they have the required background in Historical studies and have met the UWSR.
2. Certain students may be admitted as "Conditionally Classified Graduate" when they do not yet possess the required background in historical studies as determined by the Graduate Committee of the department and/or have not met the UWSR. Those students must complete specified coursework (generally HIST 400 and 401 and possibly additional prerequisites) and satisfy the UWSR in order to receive "Classified Graduate" status.
3. Students are Advanced to Candidacy when they have completed a minimum of 15 units of master's coursework with a 3.0 or better cumulative GPA, and satisfied the University Writing Skills requirement.

Program Learning Outcomes

Students graduating with an M.A. in History from Cal State East Bay will be able to:

1. demonstrate advanced knowledge of United States history and the history of at least one other geographical region;
2. analyze major arguments and themes in contemporary historiography, cross-cultural and interdisciplinary approaches to historical study, and humanistic values and evaluate their validity;
3. make use of Bay Area research libraries, archives, special collections, and digital sources;
4. analyze both secondary and primary sources, and demonstrate advanced research abilities;
5. develop and compose a major independent research project in history;
6. design an individual portfolio showcasing advanced historical work and create work suitable for publication or presentation in your chosen field;
7. identify the standards of academic integrity and attribution of sources, and apply the values of the historical profession, including ethics and standards for work in research libraries, on the Internet, at professional conferences, and at interviews for employment.

History Degree Requirements (30 units)

Prerequisites or Foundation Requirements

A strong undergraduate background in history or related fields is expected. Reading proficiency in a foreign language is strongly encouraged, especially for those planning to pursue doctoral degrees or research careers.

Core Courses

Complete the following 16 units:

- HIST 600 - Reading Seminar in History *Units: 4*
- HIST 610 - Research Seminar *Units: 4*
- HIST 630 - Graduate Historiography *Units: 4*
- HIST 651 - Graduate Portfolio *Units: 2*
- HIST 652 - Scholarly Practicum *Units: 2*

Concentrations

Students must select one (1) of the following concentrations for 8 units:

- History, M.A.: Generalist Concentration
- History, M.A.: Public History Concentration
- History, M.A.: Teaching History Concentration
- History, M.A.: University Thesis Concentration

Capstone Requirements

A capstone course is required to complete the degree. Take the following capstone for 6 units as outlined for each concentration:

- HIST 691 - University Thesis *Units: 6 (University Thesis Concentration)*
- HIST 692 - Comprehensive Exam Review *Units: 6 (Generalist Concentration)*
- HIST 699 - Departmental Thesis *Units: 6 (Public History and Teaching History Concentrations)*

University Thesis Concentration

Students must complete the following course two (2) additional times for 8 units:

- HIST 600 - Reading Seminar in History *Units: 4 (x2 for 8 units)*

Other Graduate & Post-Baccalaureate Degree Requirements

In addition to departmental requirements, every student must also satisfy the University requirements for graduation as described throughout this catalog. These include the 70% unit residence requirement; the five-year rule on currency of subject matter; the minimum number of units in 600-level courses; the "C" minimum grade for each graduate course; the 3.00 cumulative grade point average; and the University Writing Skills Requirement.

Note: For information on meeting the University Writing Skills Requirement, see the Testing Office website at www.csueastbay.edu/testing or call (510) 885-3661.

Department Courses Listed by Course Type

History Courses

Department of History

Go to information for this department.

Courses

History: Applied

- HIST 402 - Introduction to Public History *Units: 4*
- HIST 403 - Introduction to Digital Historical Methods *Units: 4*
- HIST 404 - Introduction to Teaching of History *Units: 4*

History: Lower Division

- HIST 101 - World History I *Units: 3 ; G.E./G.R. Area: C2*
- HIST 102 - World History II *Units: 3 ; G.E./G.R. Area: C2*
- HIST 110 - The United States to 1877 *Units: 3 ; G.E./G.R. Area: D1-3; US-1, US-2*
- HIST 111 - The United States Since 1877 *Units: 3 ; G.E./G.R. Area: D1-3; US-1, US-3*

History: Graduate

- HIST 600 - Reading Seminar in History *Units: 4*
- HIST 610 - Research Seminar *Units: 4*
- HIST 630 - Graduate Historiography *Units: 4*
- HIST 641 - Graduate Internship *Units: 4*
- HIST 642 - Public History Practicum *Units: 4*
- HIST 643 - Digital History Practicum *Units: 4*
- HIST 644 - Teaching History Practicum *Units: 4*
- HIST 651 - Graduate Portfolio *Units: 2*
- HIST 652 - Scholarly Practicum *Units: 2*
- HIST 690 - Independent Study *Units: 1-4*
- HIST 691 - University Thesis *Units: 6*
- HIST 692 - Comprehensive Exam Review *Units: 6*
- HIST 697 - Issues in History *Units: 4*
- HIST 699 - Departmental Thesis *Units: 6*

History: Migration and Globalization

- HIST 322 - Warfare, Genocide, Terrorism: Globalization Through Conflict Since 1914 *Units: 3 ; G.E./G.R. Area: C4*
- HIST 327 - Love, Sex, Family: Globalization and Private Life Since 1914 *Units: 3 ; G.E./G.R. Area: C4*
- HIST 328 - 20th Century World *Units: 3 ; G.E./G.R. Area: C4*
- HIST 331 - The Barbarians *Units: 3 ; G.E./G.R. Area: C4*
- HIST 336 - Ancient Greece *Units: 3 ; G.E./G.R. Area: C4*
- HIST 338 - The Roman Empire *Units: 3 ; G.E./G.R. Area: C4*
- HIST 344 - Revival and Reform in Early Modern Europe *Units: 3 ; G.E./G.R. Area: C4*
- HIST 352 - Modern Europe: Unity and Diversity *Units: 3 ; G.E./G.R. Area: C4*
- HIST 361 - Traditional India *Units: 3*
- HIST 362 - Modern South Asia *Units: 3 ; G.E./G.R. Area: C4*
- HIST 363 - The Middle East and the Rise of Islamic Societies *Units: 3 ; G.E./G.R. Area: C4*
- HIST 364 - The Modern Middle East *Units: 3 ; G.E./G.R. Area: C4*

- HIST 380 - The American West *Units: 3 ; G.E./G.R. Area: C4*
- HIST 383 - Mexican Americans in the West *Units: 3 ; G.E./G.R. Area: C4*
- HIST 387 - Immigration and the Contested American Identity *Units: 3 ; G.E./G.R. Area: C4*
- HIST 391 - Latin America: Conquest to Revolution *Units: 3 ; G.E./G.R. Area: C4*
- HIST 394 - US Mexico Relations Since 1810 *Units: 3*
- HIST 475 - The Pacific World *Units: 3*
- HIST 478 - Borderlands in North America *Units: 3 ; G.E./G.R. Area: C4*

History: Social Justice and Citizenships

- HIST 320 - Transnational Revolution in the Modern World *Units: 3*
- HIST 321 - Communism as Civilization *Units: 3*
- HIST 326 - Global Feminisms: A History *Units: 3*
- HIST 332 - Tolerance and Intolerance in the Roman Empire *Units: 3 ; G.E./G.R. Area: C4*
- HIST 335 - Rome and Christianity *Units: 3 ; G.E./G.R. Area: C4*
- HIST 342 - Unity and Diversity in the Middle Ages *Units: 3*
- HIST 343 - Society and Culture in the High Middle Ages *Units: 3 ; G.E./G.R. Area: C4*
- HIST 372 - Slavery and Freedom in the Atlantic World *Units: 3*
- HIST 373 - The American Revolution *Units: 3*
- HIST 374 - The Constitution and Its Times *Units: 3*
- HIST 375 - Religion and Diversity in America *Units: 3 ; G.E./G.R. Area: C4*
- HIST 376 - Destroying Slavery in the US Civil War *Units: 3*
- HIST 378 - The Nineteenth Century in the US *Units: 3 ; G.E./G.R. Area: C4*
- HIST 379 - Native North America *Units: 3*
- HIST 381 - US Political History *Units: 3*
- HIST 384 - Modern American Thought *Units: 3 ; G.E./G.R. Area: C4*
- HIST 385 - Race and the Modern American Nation *Units: 3*
- HIST 389 - Social Justice and Reform Movements in America *Units: 3 ; G.E./G.R. Area: D4;*

Social Justice

- HIST 393 - Revolutionary Thought in Latin America *Units: 3 ; G.E./G.R. Area: D4*
- HIST 461 - India Through Film *Units: 3*
- HIST 471 - History of the East Bay: Community Research and Engagement *Units: 3*
- HIST 472 - War and Peace in US History *Units: 3 ; G.E./G.R. Area: C4*
- HIST 473 - Sexuality and Identity in US History *Units: 3 ; G.E./G.R. Area: C4*
- HIST 474 - Women, Gender and Rights in US History *Units: 3 ; G.E./G.R. Area: C4*
- HIST 479 - World War II: Global Warfront, Local Homefront *Units: 3 ; G.E./G.R. Area: D4*
- HIST 488 - Education and American Democracy *Units: 3 ; G.E./G.R. Area: C4*

History: Sustainability and Modernization

- HIST 277 - Science and Culture in the History of Medicine in the United States *Units: 3 ; G.E./G.R. Area: C2; Writing II*
- HIST 323 - Global Environmental History *Units: 3 ; G.E./G.R. Area: C4*
- HIST 333 - Sustainability in the Ancient World *Units: 3 ; G.E./G.R. Area: C4; Sustainability*
- HIST 334 - Ancient Egyptian Civilization *Units: 3 ; G.E./G.R. Area: C4*
- HIST 337 - The Roman Republic *Units: 3 ; G.E./G.R. Area: C4*
- HIST 341 - The Birth of Europe *Units: 3 ; G.E./G.R. Area: C4*
- HIST 345 - Conflict and Expansion in Early Modern Europe *Units: 3*
- HIST 351 - Russia: Peter to the Present *Units: 3*
- HIST 365 - China: Origins to Mongol Conquest *Units: 3 ; G.E./G.R. Area: D4*
- HIST 366 - China: Ming Dynasty to Today *Units: 3 ; G.E./G.R. Area: C4*
- HIST 367 - Japan: Origins to Tokugawa *Units: 3 ; G.E./G.R. Area: C4*
- HIST 368 - Japan, Tokugawa to Today *Units: 3 ; G.E./G.R. Area: C4*
- HIST 369 - The Korean Peninsula *Units: 3 ; G.E./G.R. Area: C4*

- HIST 371 - North America: 1492-1850 *Units: 3 ; G.E./G.R. Area: C4*
- HIST 377 - The Birth of American Popular Culture *Units: 3*
- HIST 382 - California and the World *Units: 3 ; G.E./G.R. Area: D4; US-3*
- HIST 386 - Food and Justice in US History *Units: 3 ; G.E./G.R. Area: C4*
- HIST 388 - US and California Environmental History *Units: 3 ; G.E./G.R. Area: C4*
- HIST 392 - Migration and Modernization in 20th Century Mexico *Units: 3*

History: Skills Courses

- HIST 201 - Introduction to History *Units: 4*
- HIST 301 - Historical Writing *Units: 4 ; G.E./G.R. Area: UWSR*
- HIST 398 - Internship *Units: 1-3*
- HIST 400 - Historiography *Units: 4*
- HIST 405 - History Lab *Units: 1*
- HIST 409 - History Portfolio *Units: 1*
- HIST 499 - Thesis Capstone *Units: 4*

History: Additional Courses

- HIST 120 - Self and Story in World History *Units: 3 ; G.E./G.R. Area: D1-3*
- HIST 140 - Humanity, Science and Nature in History *Units: 3 ; G.E./G.R. Area: C2*
- HIST 410 - Internship in History *Units: 3*
- HIST 477 - History and Trends in Nursing *Units: 3 ; G.E./G.R. Area: C4*
- HIST 490 - Independent Study *Units: 3-4*
- HIST 497 - Issues in History *Units: 3*

Minor

History Minor

Minor Requirements (19-23 units)

Required Lower Division

Take the following 9-10 units as outlined:

- HIST 101 - World History I *Units: 3 ; G.E./G.R. Area: C2*
- HIST 102 - World History II *Units: 3 ; G.E./G.R. Area: C2*
- HIST 201 - Introduction to History *Units: 4*
OR any HIST elective may be substituted for HIST 201.

Required Upper Division

Take 10-13 units as outlined below:

Students minoring in History must take at least three (3) upper division content courses in History, one from each area of concentration (Migration and Globalization, Sustainability and Modernization, and Social Justice and Citizenships) plus HIST 405. The content course numbers are HIST 320-394, and HIST 461-490.

Students who took HIST 201 in their lower division core may also select from:

- HIST 402 - Introduction to Public History *Units: 4*
- HIST 403 - Introduction to Digital Historical Methods *Units: 4*
- HIST 404 - Introduction to Teaching of History *Units: 4*

All History Minor students must also take the following for 1 unit:

- HIST 405 - History Lab *Units: 1*

Department Courses Listed by Course Type

History Courses

Department of History

Go to information for this department.

Courses

History: Applied

- HIST 402 - Introduction to Public History *Units: 4*
- HIST 403 - Introduction to Digital Historical Methods *Units: 4*
- HIST 404 - Introduction to Teaching of History *Units: 4*

History: Lower Division

- HIST 101 - World History I *Units: 3 ; G.E./G.R. Area: C2*
- HIST 102 - World History II *Units: 3 ; G.E./G.R. Area: C2*
- HIST 110 - The United States to 1877 *Units: 3 ; G.E./G.R. Area: D1-3; US-1, US-2*
- HIST 111 - The United States Since 1877 *Units: 3 ; G.E./G.R. Area: D1-3; US-1, US-3*

History: Graduate

- HIST 600 - Reading Seminar in History *Units: 4*
- HIST 610 - Research Seminar *Units: 4*
- HIST 630 - Graduate Historiography *Units: 4*
- HIST 641 - Graduate Internship *Units: 4*
- HIST 642 - Public History Practicum *Units: 4*
- HIST 643 - Digital History Practicum *Units: 4*
- HIST 644 - Teaching History Practicum *Units: 4*
- HIST 651 - Graduate Portfolio *Units: 2*
- HIST 652 - Scholarly Practicum *Units: 2*
- HIST 690 - Independent Study *Units: 1-4*
- HIST 691 - University Thesis *Units: 6*
- HIST 692 - Comprehensive Exam Review *Units: 6*
- HIST 697 - Issues in History *Units: 4*
- HIST 699 - Departmental Thesis *Units: 6*

History: Migration and Globalization

- HIST 322 - Warfare, Genocide, Terrorism: Globalization Through Conflict Since 1914 *Units: 3 ; G.E./G.R. Area: C4*

- HIST 327 - Love, Sex, Family: Globalization and Private Life Since 1914 *Units: 3 ; G.E./G.R. Area: C4*
- HIST 328 - 20th Century World *Units: 3 ; G.E./G.R. Area: C4*
- HIST 331 - The Barbarians *Units: 3 ; G.E./G.R. Area: C4*
- HIST 336 - Ancient Greece *Units: 3 ; G.E./G.R. Area: C4*
- HIST 338 - The Roman Empire *Units: 3 ; G.E./G.R. Area: C4*
- HIST 344 - Revival and Reform in Early Modern Europe *Units: 3 ; G.E./G.R. Area: C4*
- HIST 352 - Modern Europe: Unity and Diversity *Units: 3 ; G.E./G.R. Area: C4*
- HIST 361 - Traditional India *Units: 3*
- HIST 362 - Modern South Asia *Units: 3 ; G.E./G.R. Area: C4*
- HIST 363 - The Middle East and the Rise of Islamic Societies *Units: 3 ; G.E./G.R. Area: C4*
- HIST 364 - The Modern Middle East *Units: 3 ; G.E./G.R. Area: C4*
- HIST 380 - The American West *Units: 3 ; G.E./G.R. Area: C4*
- HIST 383 - Mexican Americans in the West *Units: 3 ; G.E./G.R. Area: C4*
- HIST 387 - Immigration and the Contested American Identity *Units: 3 ; G.E./G.R. Area: C4*
- HIST 391 - Latin America: Conquest to Revolution *Units: 3 ; G.E./G.R. Area: C4*
- HIST 394 - US Mexico Relations Since 1810 *Units: 3*
- HIST 475 - The Pacific World *Units: 3*
- HIST 478 - Borderlands in North America *Units: 3 ; G.E./G.R. Area: C4*

History: Social Justice and Citizenships

- HIST 320 - Transnational Revolution in the Modern World *Units: 3*
- HIST 321 - Communism as Civilization *Units: 3*
- HIST 326 - Global Feminisms: A History *Units: 3*
- HIST 332 - Tolerance and Intolerance in the Roman Empire *Units: 3 ; G.E./G.R. Area: C4*
- HIST 335 - Rome and Christianity *Units: 3 ; G.E./G.R. Area: C4*
- HIST 342 - Unity and Diversity in the Middle Ages *Units: 3*
- HIST 343 - Society and Culture in the High Middle Ages *Units: 3 ; G.E./G.R. Area: C4*
- HIST 372 - Slavery and Freedom in the Atlantic World *Units: 3*
- HIST 373 - The American Revolution *Units: 3*
- HIST 374 - The Constitution and Its Times *Units: 3*
- HIST 375 - Religion and Diversity in America *Units: 3 ; G.E./G.R. Area: C4*
- HIST 376 - Destroying Slavery in the US Civil War *Units: 3*
- HIST 378 - The Nineteenth Century in the US *Units: 3 ; G.E./G.R. Area: C4*
- HIST 379 - Native North America *Units: 3*
- HIST 381 - US Political History *Units: 3*
- HIST 384 - Modern American Thought *Units: 3 ; G.E./G.R. Area: C4*
- HIST 385 - Race and the Modern American Nation *Units: 3*
- HIST 389 - Social Justice and Reform Movements in America *Units: 3 ; G.E./G.R. Area: D4;*

Social Justice

- HIST 393 - Revolutionary Thought in Latin America *Units: 3 ; G.E./G.R. Area: D4*
- HIST 461 - India Through Film *Units: 3*
- HIST 471 - History of the East Bay: Community Research and Engagement *Units: 3*
- HIST 472 - War and Peace in US History *Units: 3 ; G.E./G.R. Area: C4*
- HIST 473 - Sexuality and Identity in US History *Units: 3 ; G.E./G.R. Area: C4*
- HIST 474 - Women, Gender and Rights in US History *Units: 3 ; G.E./G.R. Area: C4*
- HIST 479 - World War II: Global Warfront, Local Homefront *Units: 3 ; G.E./G.R. Area: D4*
- HIST 488 - Education and American Democracy *Units: 3 ; G.E./G.R. Area: C4*

History: Sustainability and Modernization

- HIST 277 - Science and Culture in the History of Medicine in the United States *Units: 3 ; G.E./G.R. Area: C2; Writing II*

- HIST 323 - Global Environmental History *Units: 3 ; G.E./G.R. Area: C4*
- HIST 333 - Sustainability in the Ancient World *Units: 3 ; G.E./G.R. Area: C4; Sustainability*
- HIST 334 - Ancient Egyptian Civilization *Units: 3 ; G.E./G.R. Area: C4*
- HIST 337 - The Roman Republic *Units: 3 ; G.E./G.R. Area: C4*
- HIST 341 - The Birth of Europe *Units: 3 ; G.E./G.R. Area: C4*
- HIST 345 - Conflict and Expansion in Early Modern Europe *Units: 3*
- HIST 351 - Russia: Peter to the Present *Units: 3*
- HIST 365 - China: Origins to Mongol Conquest *Units: 3 ; G.E./G.R. Area: D4*
- HIST 366 - China: Ming Dynasty to Today *Units: 3 ; G.E./G.R. Area: C4*
- HIST 367 - Japan: Origins to Tokugawa *Units: 3 ; G.E./G.R. Area: C4*
- HIST 368 - Japan, Tokugawa to Today *Units: 3 ; G.E./G.R. Area: C4*
- HIST 369 - The Korean Peninsula *Units: 3 ; G.E./G.R. Area: C4*
- HIST 371 - North America: 1492-1850 *Units: 3 ; G.E./G.R. Area: C4*
- HIST 377 - The Birth of American Popular Culture *Units: 3*
- HIST 382 - California and the World *Units: 3 ; G.E./G.R. Area: D4; US-3*
- HIST 386 - Food and Justice in US History *Units: 3 ; G.E./G.R. Area: C4*
- HIST 388 - US and California Environmental History *Units: 3 ; G.E./G.R. Area: C4*
- HIST 392 - Migration and Modernization in 20th Century Mexico *Units: 3*

History: Skills Courses

- HIST 201 - Introduction to History *Units: 4*
- HIST 301 - Historical Writing *Units: 4 ; G.E./G.R. Area: UWSR*
- HIST 398 - Internship *Units: 1-3*
- HIST 400 - Historiography *Units: 4*
- HIST 405 - History Lab *Units: 1*
- HIST 409 - History Portfolio *Units: 1*
- HIST 499 - Thesis Capstone *Units: 4*

History: Additional Courses

- HIST 120 - Self and Story in World History *Units: 3 ; G.E./G.R. Area: D1-3*
- HIST 140 - Humanity, Science and Nature in History *Units: 3 ; G.E./G.R. Area: C2*
- HIST 410 - Internship in History *Units: 3*
- HIST 477 - History and Trends in Nursing *Units: 3 ; G.E./G.R. Area: C4*
- HIST 490 - Independent Study *Units: 3-4*
- HIST 497 - Issues in History *Units: 3*

Certificate

Public History Certificate

The Public History certificate is designed for students with an interest in pursuing a career in Public History. It is designed with the History major in mind, but is open to all students. Students are exposed to the issues of presenting history to a public audience, and also acquire practical skills through coursework that will help build their professional portfolio. The certificate requires a total of 22 units.

Certificate Requirements (22 units)

Public History Core

Take the following 19 units:

- HIST 201 - Introduction to History *Units: 4*
- HIST 402 - Introduction to Public History *Units: 4*
- HIST 403 - Introduction to Digital Historical Methods *Units: 4*
- HIST 410 - Internship in History *Units: 3*
- HIST 471 - History of the East Bay: Community Research and Engagement *Units: 3*

Practical Skills Applications Course

Students are required to take at least 3 units of a "practical application" course outside of the department, in addition to the courses listed above.

The courses below may have pre-requisites. Consult department. Other courses may fulfill the requirement with permission of the Public History Coordinator.

- ART 101 - Photography I *Units: 3 ; G.E./G.R. Area: C1*
- ART 102 - 2D Processes *Units: 3 ; G.E./G.R. Area: C1*
- ART 103 - 3D Processes *Units: 3 ; G.E./G.R. Area: C1*
- ART 152 - Web Design I: Foundations *Units: 3*
- COMM 260 - Documentary Film Studies *Units: 3 ; G.E./G.R. Area: C2*
- COMM 335 - Visual and Multimedia Storytelling I *Units: 2*
- COMM 369 - Documentary History and Theory Abroad *Units: 4 ; G.E./G.R. Area: C4*
- ENVT 320 - Environmental Resource Analysis *Units: 4*
- GEOL 460 - Geographic Information Systems for Earth and Environmental Sciences *Units: 4*

Department Courses Listed by Course Type

History Courses

Department of History

Go to information for this department.

Courses

History: Applied

- HIST 402 - Introduction to Public History *Units: 4*
- HIST 403 - Introduction to Digital Historical Methods *Units: 4*
- HIST 404 - Introduction to Teaching of History *Units: 4*

History: Lower Division

- HIST 101 - World History I *Units: 3 ; G.E./G.R. Area: C2*
- HIST 102 - World History II *Units: 3 ; G.E./G.R. Area: C2*
- HIST 110 - The United States to 1877 *Units: 3 ; G.E./G.R. Area: D1-3; US-1, US-2*

- HIST 111 - The United States Since 1877 *Units: 3 ; G.E./G.R. Area: D1-3; US-1, US-3*

History: Graduate

- HIST 600 - Reading Seminar in History *Units: 4*
- HIST 610 - Research Seminar *Units: 4*
- HIST 630 - Graduate Historiography *Units: 4*
- HIST 641 - Graduate Internship *Units: 4*
- HIST 642 - Public History Practicum *Units: 4*
- HIST 643 - Digital History Practicum *Units: 4*
- HIST 644 - Teaching History Practicum *Units: 4*
- HIST 651 - Graduate Portfolio *Units: 2*
- HIST 652 - Scholarly Practicum *Units: 2*
- HIST 690 - Independent Study *Units: 1-4*
- HIST 691 - University Thesis *Units: 6*
- HIST 692 - Comprehensive Exam Review *Units: 6*
- HIST 697 - Issues in History *Units: 4*
- HIST 699 - Departmental Thesis *Units: 6*

History: Migration and Globalization

- HIST 322 - Warfare, Genocide, Terrorism: Globalization Through Conflict Since 1914 *Units: 3 ; G.E./G.R. Area: C4*
- HIST 327 - Love, Sex, Family: Globalization and Private Life Since 1914 *Units: 3 ; G.E./G.R. Area: C4*
- HIST 328 - 20th Century World *Units: 3 ; G.E./G.R. Area: C4*
- HIST 331 - The Barbarians *Units: 3 ; G.E./G.R. Area: C4*
- HIST 336 - Ancient Greece *Units: 3 ; G.E./G.R. Area: C4*
- HIST 338 - The Roman Empire *Units: 3 ; G.E./G.R. Area: C4*
- HIST 344 - Revival and Reform in Early Modern Europe *Units: 3 ; G.E./G.R. Area: C4*
- HIST 352 - Modern Europe: Unity and Diversity *Units: 3 ; G.E./G.R. Area: C4*
- HIST 361 - Traditional India *Units: 3*
- HIST 362 - Modern South Asia *Units: 3 ; G.E./G.R. Area: C4*
- HIST 363 - The Middle East and the Rise of Islamic Societies *Units: 3 ; G.E./G.R. Area: C4*
- HIST 364 - The Modern Middle East *Units: 3 ; G.E./G.R. Area: C4*
- HIST 380 - The American West *Units: 3 ; G.E./G.R. Area: C4*
- HIST 383 - Mexican Americans in the West *Units: 3 ; G.E./G.R. Area: C4*
- HIST 387 - Immigration and the Contested American Identity *Units: 3 ; G.E./G.R. Area: C4*
- HIST 391 - Latin America: Conquest to Revolution *Units: 3 ; G.E./G.R. Area: C4*
- HIST 394 - US Mexico Relations Since 1810 *Units: 3*
- HIST 475 - The Pacific World *Units: 3*
- HIST 478 - Borderlands in North America *Units: 3 ; G.E./G.R. Area: C4*

History: Social Justice and Citizenships

- HIST 320 - Transnational Revolution in the Modern World *Units: 3*
- HIST 321 - Communism as Civilization *Units: 3*
- HIST 326 - Global Feminisms: A History *Units: 3*
- HIST 332 - Tolerance and Intolerance in the Roman Empire *Units: 3 ; G.E./G.R. Area: C4*
- HIST 335 - Rome and Christianity *Units: 3 ; G.E./G.R. Area: C4*
- HIST 342 - Unity and Diversity in the Middle Ages *Units: 3*
- HIST 343 - Society and Culture in the High Middle Ages *Units: 3 ; G.E./G.R. Area: C4*
- HIST 372 - Slavery and Freedom in the Atlantic World *Units: 3*
- HIST 373 - The American Revolution *Units: 3*
- HIST 374 - The Constitution and Its Times *Units: 3*

- HIST 375 - Religion and Diversity in America *Units: 3 ; G.E./G.R. Area: C4*
- HIST 376 - Destroying Slavery in the US Civil War *Units: 3*
- HIST 378 - The Nineteenth Century in the US *Units: 3 ; G.E./G.R. Area: C4*
- HIST 379 - Native North America *Units: 3*
- HIST 381 - US Political History *Units: 3*
- HIST 384 - Modern American Thought *Units: 3 ; G.E./G.R. Area: C4*
- HIST 385 - Race and the Modern American Nation *Units: 3*
- HIST 389 - Social Justice and Reform Movements in America *Units: 3 ; G.E./G.R. Area: D4;*

Social Justice

- HIST 393 - Revolutionary Thought in Latin America *Units: 3 ; G.E./G.R. Area: D4*
- HIST 461 - India Through Film *Units: 3*
- HIST 471 - History of the East Bay: Community Research and Engagement *Units: 3*
- HIST 472 - War and Peace in US History *Units: 3 ; G.E./G.R. Area: C4*
- HIST 473 - Sexuality and Identity in US History *Units: 3 ; G.E./G.R. Area: C4*
- HIST 474 - Women, Gender and Rights in US History *Units: 3 ; G.E./G.R. Area: C4*
- HIST 479 - World War II: Global Warfront, Local Homefront *Units: 3 ; G.E./G.R. Area: D4*
- HIST 488 - Education and American Democracy *Units: 3 ; G.E./G.R. Area: C4*

History: Sustainability and Modernization

- HIST 277 - Science and Culture in the History of Medicine in the United States *Units: 3 ; G.E./G.R. Area: C2; Writing II*
- HIST 323 - Global Environmental History *Units: 3 ; G.E./G.R. Area: C4*
- HIST 333 - Sustainability in the Ancient World *Units: 3 ; G.E./G.R. Area: C4; Sustainability*
- HIST 334 - Ancient Egyptian Civilization *Units: 3 ; G.E./G.R. Area: C4*
- HIST 337 - The Roman Republic *Units: 3 ; G.E./G.R. Area: C4*
- HIST 341 - The Birth of Europe *Units: 3 ; G.E./G.R. Area: C4*
- HIST 345 - Conflict and Expansion in Early Modern Europe *Units: 3*
- HIST 351 - Russia: Peter to the Present *Units: 3*
- HIST 365 - China: Origins to Mongol Conquest *Units: 3 ; G.E./G.R. Area: D4*
- HIST 366 - China: Ming Dynasty to Today *Units: 3 ; G.E./G.R. Area: C4*
- HIST 367 - Japan: Origins to Tokugawa *Units: 3 ; G.E./G.R. Area: C4*
- HIST 368 - Japan, Tokugawa to Today *Units: 3 ; G.E./G.R. Area: C4*
- HIST 369 - The Korean Peninsula *Units: 3 ; G.E./G.R. Area: C4*
- HIST 371 - North America: 1492-1850 *Units: 3 ; G.E./G.R. Area: C4*
- HIST 377 - The Birth of American Popular Culture *Units: 3*
- HIST 382 - California and the World *Units: 3 ; G.E./G.R. Area: D4; US-3*
- HIST 386 - Food and Justice in US History *Units: 3 ; G.E./G.R. Area: C4*
- HIST 388 - US and California Environmental History *Units: 3 ; G.E./G.R. Area: C4*
- HIST 392 - Migration and Modernization in 20th Century Mexico *Units: 3*

History: Skills Courses

- HIST 201 - Introduction to History *Units: 4*
- HIST 301 - Historical Writing *Units: 4 ; G.E./G.R. Area: UWSR*
- HIST 398 - Internship *Units: 1-3*
- HIST 400 - Historiography *Units: 4*
- HIST 405 - History Lab *Units: 1*
- HIST 409 - History Portfolio *Units: 1*
- HIST 499 - Thesis Capstone *Units: 4*

History: Additional Courses

- HIST 120 - Self and Story in World History *Units: 3 ; G.E./G.R. Area: D1-3*
- HIST 140 - Humanity, Science and Nature in History *Units: 3 ; G.E./G.R. Area: C2*

- HIST 410 - Internship in History *Units: 3*
- HIST 477 - History and Trends in Nursing *Units: 3 ; G.E./G.R. Area: C4*
- HIST 490 - Independent Study *Units: 3-4*
- HIST 497 - Issues in History *Units: 3*

Single Subject Matter Preparation Program

Social Science Single Subject Matter Preparation Program

The 65-66 unit Single Subject Matter Preparation Program in Social Science is designed for students wishing to earn a Single Subject Teaching Credential in Social Science following the award of their bachelor's degree. Students who successfully complete this program of study will be able to verify their subject matter competence as part of their teaching qualifications and will not be required to take the California Subject Examinations for Teachers for Social Science, also known as the CSET tests. A Single Subject Teaching Credential is required in addition to completion of this program for those wishing to teach in middle or high schools. This program has been approved by the California Commission on Teacher Credentialing (CTC).

Completion of the Single Subject Matter Preparation Program in Social Science is certified by the Department of History. The program may be completed by students in any major, but overlaps major requirements in several Social Science fields, including History, Political Science, Ethnic Studies, Geography, Sociology, and Economics. For additional information, contact the Single Subject Matter Preparation Program advisor in the Department of History: Student and Faculty Support Building (SF), Room 442, or <http://www.csueastbay.edu/class/departments/history/>

Note: No more than six (6) units may be taken on a Credit/No Credit basis. No more than six (6) units with a grade below "C" may be submitted in fulfillment of any program requirement. To successfully complete the program, a student must have a minimum 2.5 cumulative GPA. Students must successfully complete the Assessment Capstone (History 404) in the final year of their participation in the program.

Core Curriculum

All of the following 33 units of core coursework are required:

American Government

All courses required:

- POSC 101 - American Political Institutions *Units: 3 ; G.E./G.R. Area: D1-3; US-1, US-2*
- POSC 102 - Public Policy/California Politics *Units: 3 ; G.E./G.R. Area: D1-3; US-1, US-3*

California History

All courses required:

- HIST 382 - California and the World *Units: 3 ; G.E./G.R. Area: D4; US-3*

Economics

All courses required:

- **ECON 200 - Principles of Microeconomics** *Units: 3 ; G.E./G.R. Area: D1-3; Social Justice*
- **ECON 205 - Principles of Macroeconomics** *Units: 3 ; G.E./G.R. Area: D1-3*

U.S. History and Geography

All courses required:

- **GEOG 330 - Historical Geography of North America** *Units: 3 ; G.E./G.R. Area: D4*
- **HIST 110 - The United States to 1877** *Units: 3 ; G.E./G.R. Area: D1-3; US-1, US-2*
- **HIST 111 - The United States Since 1877** *Units: 3 ; G.E./G.R. Area: D1-3; US-1, US-3*

World History and Geography

All courses required:

- **GEOG 120 - Human Geography: Diversity and Globalization** *Units: 3 ; G.E./G.R. Area: D1-3*
- **HIST 101 - World History I** *Units: 3 ; G.E./G.R. Area: C2*
- **HIST 102 - World History II** *Units: 3 ; G.E./G.R. Area: C2*

Breadth and Perspectives

The following 28-29 units of breadth and perspectives coursework are required:

American Democracy I

Select one (1) course from the following:

- **HIST 373 - The American Revolution** *Units: 3*
- **HIST 376 - Destroying Slavery in the US Civil War** *Units: 3*
- **HIST 378 - The Nineteenth Century in the US** *Units: 3 ; G.E./G.R. Area: C4*

American Democracy II

Select one (1) course from the following:

- **HIST 385 - Race and the Modern American Nation** *Units: 3*
- **HIST 389 - Social Justice and Reform Movements in America** *Units: 3 ; G.E./G.R. Area: D4; Social Justice*
- **HIST 472 - War and Peace in US History** *Units: 3 ; G.E./G.R. Area: C4*
- **HIST 479 - World War II: Global Warfront, Local Homefront** *Units: 3 ; G.E./G.R. Area: D4*

American Democracy III

Select one (1) course from the following:

- POSC 311 - The American Presidency *Units: 3*
- POSC 314 - State and Local Politics and Government *Units: 3*
- POSC 316 - Politics of California *Units: 3*
- POSC 340 - Law and Society *Units: 3 ; G.E./G.R. Area: C4*
- POSC 341 - American Constitutional Law: Government *Units: 3*
- POSC 342 - American Constitutional Law: Rights *Units: 3*

American Diversity

Select one (1) course from the following:

- ES 200 - Race and Resistance *Units: 3 ; G.E./G.R. Area: C1; Diversity*
- ES 320 - The Chicano/a Movement *Units: 3 ; G.E./G.R. Area: D4*
- ES 324 - Latin American Immigration *Units: 3 ; G.E./G.R. Area: C4; Diversity*
- ES 341 - Enslavement and Resistance in the Americas *Units: 3 ; G.E./G.R. Area: D4; Diversity*
- HIST 387 - Immigration and the Contested American Identity *Units: 3 ; G.E./G.R. Area: C4*
- HIST 473 - Sexuality and Identity in US History *Units: 3 ; G.E./G.R. Area: C4*
- HIST 474 - Women, Gender and Rights in US History *Units: 3 ; G.E./G.R. Area: C4*
- POSC 335 - Women and Politics *Units: 3*
- POSC 336 - Ethnic and Minority Politics *Units: 3*
- POSC 337 - African American Politics *Units: 3*
- SOC 325 - Race and Ethnic Relations *Units: 4 ; G.E./G.R. Area: Diversity*
- SOC 320 - Social Inequalities *Units: 4 ; G.E./G.R. Area: Social Justice*

Global Perspectives I

Select one (1) course from the following:

- GEOG 352 - Latin America and the Caribbean *Units: 3 ; G.E./G.R. Area: D4*
- GEOG 353 - Africa *Units: 3 ; G.E./G.R. Area: D4*
- GEOG 354 - China: Economic Development and Social Transformation *Units: 3 ; G.E./G.R. Area: D4*
- GEOG 355 - Asia Pacific *Units: 3 ; G.E./G.R. Area: D4*

Global Perspectives II

Select one (1) course from the following:

- HIST 322 - Warfare, Genocide, Terrorism: Globalization Through Conflict Since 1914 *Units: 3 ; G.E./G.R. Area: C4*
- HIST 328 - 20th Century World *Units: 3 ; G.E./G.R. Area: C4*
- HIST 351 - Russia: Peter to the Present *Units: 3*

- HIST 352 - Modern Europe: Unity and Diversity *Units: 3 ; G.E./G.R. Area: C4*

Global Perspectives III

Select one (1) course from the following:

- HIST 362 - Modern South Asia *Units: 3 ; G.E./G.R. Area: C4*
- HIST 364 - The Modern Middle East *Units: 3 ; G.E./G.R. Area: C4*
- HIST 366 - China: Ming Dynasty to Today *Units: 3 ; G.E./G.R. Area: C4*
- HIST 368 - Japan, Tokugawa to Today *Units: 3 ; G.E./G.R. Area: C4*
- HIST 369 - The Korean Peninsula *Units: 3 ; G.E./G.R. Area: C4*
- HIST 393 - Revolutionary Thought in Latin America *Units: 3 ; G.E./G.R. Area: D4*

Historiography and Research Methods

The following course is required:

- HIST 301 - Historical Writing *Units: 4 ; G.E./G.R. Area: UWSR*

History/Social Science Teaching

The following course is required:

- TED 302 - Introduction to Teaching *Units: 3*

Assessment Capstone

The following 4 unit assessment capstone, to be completed in the final year of the program, is required:

- HIST 404 - Introduction to Teaching of History *Units: 4*

Department of Hospitality, Recreation and Tourism

The Department Office is located on the 1st Floor of the PE building, Room 130.

Hours Open: 8:00 am to 5:00 pm Monday through Friday.

Dept. Phone: (510) 885-3043

Faculty

Professors

Christopher Chamberlain (Chair), D.M. University of Phoenix

Mary F. Fortune, Ed.D. University of San Francisco

Zaher Hallab, Ph.D. Virginia Polytechnic Institute and State University

Doris D. Yates, Ph.D. Michigan State University

Associate Professors

Nancy B. White, Ph.D. University of New Mexico

Assistant Professors

Saehya Ann, Ph.D. Texas Tech University

Erick Kong, Ed.D. Alliant University

Thomas Padron, Ph.D. Capella University

Heather Vilhauer, Ed.D. University of San Francisco

Semih Yilmaz, Ph.D. University of Florida

Lecturers

Kenneth L. Hanley, M.S. California State University, Hayward

Margaret Zeiger, M.S. Golden Gate University

Janeen Hill, M.S. Guelph University (Canada)

Lisa Smusz, M.F.T. California State University, East Bay

Mission Statement

Our mission is to educate and prepare leaders who contribute to the quality of life of individuals and our communities, both locally and globally, through Hospitality, Recreation and Tourism.

About the Department

Use our university website link to learn more about what the Hospitality, Recreation, and Tourism Department has to offer.

- Student Toolbox
- Resources and Opportunities
- News & Events
- Advising
- And more...

Bachelor

Recreation, B.S.: Sustainability Concentration

Recreation, B.S. Program (120 units)

Program Description

The Recreation degree prepares students for leadership positions in public recreation and leisure services agencies. Such work enhances the quality of life for millions of people each day across the nation. Specializations available in the degree include the Sustainability Concentration, Youth Development Programming Concentration, and a Recreation Therapy Concentration that prepares students to sit for the state RT licensing exam.

Potential jobs in this rewarding field include program coordinators, supervisors and directors in a variety of areas including day camps, sports, youth, teen and older adult activities and classes and naturalist, park ranger positions. Many graduates from our program are leaders in leisure services organizations including Concord, Livermore, Oakland, Pleasanton, San Ramon, and the East Bay Regional Park District.

The Recreation Therapy Concentration is designed to prepare students to work as allied health professionals with people who have special needs in clinical, residential, and community-based agencies. This option is specifically designed to meet the standards developed by the National Council for Therapeutic Recreation Certification (NCTRC) and the California Board of Recreation and Park Certification for Recreation Therapy. Successfully completing this curriculum will provide students with knowledge competencies necessary to qualify for both the National and State Therapeutic Recreation Certification Exams.

Many graduates of this option are leaders in Recreation Therapy in the San Francisco Bay Area. They work in varied locations such as rehabilitation hospitals, drug treatment programs, mental health clinics and inpatient programs, state hospitals, long term care facilities, prisons and schools.

Program Learning Outcomes

Students who graduate with a B.S. in Recreation will be able to:

1. Explain effective and sustainable solutions based on evidence to address challenges faced in the provision of recreation programs and services, management of facilities and stewardship of natural resources.
2. Identify effective leadership and teamwork strategies, management skills, methods to evaluate service quality and meet consumer needs in recreation management.
3. Articulate clearly in both written and oral formats the ethical, philosophical, historical, and administrative foundations of the recreation profession.
4. Identify techniques that contribute to a culture of dignity and respect in the recreation management profession.

Students who graduate with a B.S. in Recreation Management with a Recreation Therapy Concentration will be able to:

1. Explain stages of human development, principles of behavioral change, and models for delivery of recreation therapy programs and services.
2. Identify effective leadership and teamwork strategies, standards of practice, assessment techniques and documentation requirements in recreation therapy.
3. Articulate clearly in both written and oral formats the ethical, philosophical, historical, and administrative foundations of the recreation therapy profession.

4. Identify techniques that contribute to a culture of dignity and respect in the recreation therapy profession, based on principles of access, inclusion, and independence.

Degree Requirements Unit-Outline

- A baccalaureate of science degree requires a total of 120 units:
 - The major requirements consists of 61-70 units;
 - General Education (GE) & Graduation Requirements (GR) consists of 57 units;
 - Free Electives may consist of 0-2 units (*actual number of free elective units may depend on*

GE/GR units).

Note: It may be possible to double-count units within the graduation requirements or that a course may satisfy both a graduation requirement and a major requirement. Students should contact their program and AACE advisors for information.

Recreation Major Requirements (63-69 units)

Core Courses

The Recreation Management Core is 35 units of specific courses that lay a broad foundation in the recreation/leisure industry, including a 400 hour internship. Students taking the Recreation Therapy Concentration will have a 600 hour internship to complete. In addition, students will take elective courses, if needed, to complete the degree.

- HOS 100 - Professional Preparation *Units: 2*
- HOS 300 - Marketing in Hospitality, Recreation, Recreation Therapy, and Tourism *Units: 3*
- HOS 400 - Introduction to Finance in Hospitality, Recreation, Recreation Therapy, and Tourism *Units: 3*
- HOS 450 - Data-Driven Decision Making in Hospitality, Recreation, Recreation Therapy, and Tourism *Units: 3*
- REC 100 - Introduction to Hospitality and Tourism, Recreation, and Recreation Therapy *Units: 3 ; G.E./G.R. Area: D1-3*
- REC 200 - Serving Diverse Populations in Hospitality, Recreation, Rec Therapy and Tourism *Units: 3 ; G.E./G.R. Area: D1-3; Social Justice*
- REC 215 - Special Events in Recreation *Units: 3*
- REC 230 - Introduction to Youth Development *Units: 3 ; G.E./G.R. Area: D1-3*
- REC 325 - Leadership, Management and Ethics in Hospitality, Recreation, Rec Therapy, and Tourism *Units: 3*
- REC 340 - Sustainable Facilities, Parks and Open Space *Units: 3 ; G.E./G.R. Area: Sustainability*
- REC 400 - Law, Risk and Regulation in Hospitality, Recreation, Rec Therapy, and Tourism *Units: 3*
- REC 425 - Strategic Positioning in Recreation *Units: 3*

Concentrations

To complete the Recreation Management major students must choose either one (1) of the following concentrations or 26 units of pre-approved electives:

- Recreation, B.S. (Available Online) (26 units of pre-approved electives)
- Recreation, B.S.: Recreation Therapy Concentration (Available Online) (33 units)
- Recreation, B.S.: Sustainability Concentration (26 units)
- Recreation, B.S.: Youth Development Programming Concentration (26 units)

Capstone Requirement

Choose the internship placement appropriate to the concentration as indicated for 1 or 2 units:

- REC 475 - Internship Placement *Units: 2 (all other concentrations)*
- REC 476 - Recreation Therapy Internship Placement *Units: 1*

Sustainability Concentration

The Recreation Management concentration in Sustainability is 26 units. This concentration is ideal for those who wish to work in the sustainable tourism development or community sustainable industry.

- HOS 230 - Sustainable Global Tourism Development *Units: 3 ; G.E./G.R. Area: D1-3; Sustainability*
- REC 110 - Foundations of Sustainability in Hospitality, Recreation and Tourism *Units: 3 ; G.E./G.R. Area: Sustainability*
- REC 355 - Community Sustainability in Hospitality, Recreation and Tourism *Units: 3*
- REC 475 - Internship Placement *Units: 2*
- REC 480 - Internship *Units: 3-6 (see Errata section for changes to this course)*
- Plus take an additional 9-12 units of electives approved by your advisor.

Other Undergraduate Degree Requirements

In addition to major requirements, every student must also complete the University's baccalaureate requirements for graduation, which are described in the Requirements, Exams & Testing chapter of this catalog.

Department Courses Listed by Course Type

Hospitality, Recreation, and Tourism Courses

Department of Hospitality, Recreation and Tourism

Go to information for this department.

Courses

Hospitality and Tourism

- • HOS 100 - Professional Preparation *Units: 2*
- • HOS 200 - Lodging Management *Units: 3*
- • HOS 205 - Tourism Management *Units: 3 ; G.E./G.R. Area: D1-3*
- • HOS 210 - Meetings, Conventions, & Special Events *Units: 3*
- • HOS 215 - Food and Beverage Management *Units: 3*
- • HOS 225 - Technology in Hospitality and Tourism *Units: 3*
- • HOS 230 - Sustainable Global Tourism Development *Units: 3 ; G.E./G.R. Area: D1-3;*
- Sustainability*
- • HOS 235 - Introduction to Community Engagement *Units: 3 ; G.E./G.R. Area: E*
- • HOS 297 - Food & Culture *Units: 3 ; G.E./G.R. Area: D1-3; Social Justice*
- • HOS 298 - Customer Service for Professions *Units: 3 ; G.E./G.R. Area: D1-3*
- • HOS 299 - Professionalism & Etiquette *Units: 3 ; G.E./G.R. Area: E; Diversity*
- • HOS 300 - Marketing in Hospitality, Recreation, Recreation Therapy, and Tourism *Units: 3*
- • HOS 310 - Design & Management of Special Events in Hospitality and Tourism *Units: 3*
- • HOS 315 - Wedding Planning *Units: 3*
- • HOS 320 - Event Leadership *Units: 3*
- • HOS 335 - Introduction to Wine, Beer and Spirits *Units: 3*
- • HOS 340 - Menu Planning, Cost Control, and Purchasing *Units: 3*
- • HOS 350 - Resort and Club Management *Units: 3*
- • HOS 355 - Advanced Lodging Management *Units: 3*
- • HOS 360 - Lodging Alternatives *Units: 3*
- • HOS 400 - Introduction to Finance in Hospitality, Recreation, Recreation Therapy, and Tourism *Units: 3*
- • HOS 410 - Revenue Management in Hospitality and Tourism *Units: 3*
- • HOS 435 - Advanced Community Engagement *Units: 3 ; G.E./G.R. Area: E*
- • HOS 450 - Data-Driven Decision Making in Hospitality, Recreation, Recreation Therapy, and Tourism *Units: 3*
- • HOS 475 - Internship Placement *Units: 1*
- • HOS 490 - Independent Study *Units: 1-3*
- • HOS 497 - Issues in Hospitality & Tourism *Units: 1-3*
- • HOS 498 - Internship *Units: 3-6*
- Recreation**
- • REC 100 - Introduction to Hospitality and Tourism, Recreation, and Recreation Therapy *Units: 3 ; G.E./G.R. Area: D1-3*
- • REC 110 - Foundations of Sustainability in Hospitality, Recreation and Tourism *Units: 3 ; G.E./G.R. Area: Sustainability*
- • REC 200 - Serving Diverse Populations in Hospitality, Recreation, Rec Therapy and Tourism *Units: 3 ; G.E./G.R. Area: D1-3; Social Justice*
- • REC 210 - Programming in Community Recreation, Sport and Camp *Units: 3*
- • REC 215 - Special Events in Recreation *Units: 3*
- • REC 230 - Introduction to Youth Development *Units: 3 ; G.E./G.R. Area: D1-3*
- • REC 235 - Leisure, Self, and Society *Units: 3 ; G.E./G.R. Area: D1-3*
- • REC 300 - Wellness Through Leisure *Units: 3 ; G.E./G.R. Area: D4*
- • REC 310 - Women and Leisure *Units: 3 ; G.E./G.R. Area: D4*
- • REC 320 - Aquatic Management *Units: 3*
- • REC 321 - Resident and Day Camp Administration *Units: 3*
- • REC 325 - Leadership, Management and Ethics in Hospitality, Recreation, Rec Therapy, and Tourism *Units: 3*
- • REC 330 - Leadership in Small Groups *Units: 3*
- • REC 340 - Sustainable Facilities, Parks and Open Space *Units: 3 ; G.E./G.R. Area: Sustainability*

- REC 355 - Community Sustainability in Hospitality, Recreation and Tourism *Units: 3*
- REC 360 - Foundations in Recreation Therapy *Units: 3 ; G.E./G.R. Area: E*
- REC 361 - Recreation Therapy Diagnostic Groupings *Units: 3*
- REC 362 - Recreation Therapy Documentation & Assessment *Units: 3*
- REC 363 - Recreation Therapy Process & Techniques *Units: 3*
- REC 364 - Recreation Therapy Program Planning & Implementation *Units: 3*
- REC 365 - Advancement of Recreation Therapy Profession and Management *Units: 3*
- REC 400 - Law, Risk and Regulation in Hospitality, Recreation, Rec Therapy, and Tourism

Units: 3

- REC 425 - Strategic Positioning in Recreation *Units: 3*
- REC 430 - Youth Development: Current Issues for Youth 5-17 *Units: 3*
- REC 475 - Internship Placement *Units: 2*
- REC 476 - Recreation Therapy Internship Placement *Units: 1*
- REC 480 - Internship *Units: 3-6*
- REC 481 - Recreation Therapy Internship *Units: 3-6*
- REC 490 - Independent Study *Units: 1-3*
- REC 497 - Issues in Recreation *Units: 1-3*

Hospitality, Recreation and Tourism: Graduate

- REC 600 - Foundations of Hospitality, Recreation and Tourism *Units: 3*
- REC 610 - Strategic Leadership and Ethics in Hospitality, Recreation and Tourism *Units: 3*
- REC 620 - Organizational Development in Hospitality, Recreation and Tourism *Units: 3*
- REC 630 - Research Methods in Hospitality, Recreation and Tourism *Units: 3*
- REC 640 - Law and Risk in Hospitality, Recreation and Tourism *Units: 3*
- REC 650 - Fiscal Management in Hospitality, Recreation and Tourism *Units: 3*
- REC 660 - Sustainable Solutions in Hospitality, Recreation and Tourism *Units: 3*
- REC 670 - Advanced Marketing in Hospitality, Recreation and Tourism *Units: 3*
- REC 693A - Applied Research Project I *Units: 3*
- REC 693B - Applied Research Project II *Units: 3*
- REC 697 - Special Issues in Hospitality, Recreation and Tourism *Units: 1-3*

Recreation, B.S.: Youth Development Programming Concentration

Recreation, B.S. Program (120 units)

Program Description

The Recreation degree prepares students for leadership positions in public recreation and leisure services agencies. Such work enhances the quality of life for millions of people each day across the nation. Specializations available in the degree include the Sustainability Concentration, Youth Development Programming Concentration, and a Recreation Therapy Concentration that prepares students to sit for the state RT licensing exam.

Potential jobs in this rewarding field include program coordinators, supervisors and directors in a variety of areas including day camps, sports, youth, teen and older adult activities and classes and naturalist, park ranger positions. Many graduates from our program are leaders in leisure services organizations including Concord, Livermore, Oakland, Pleasanton, San Ramon, and the East Bay Regional Park District.

The Recreation Therapy Concentration is designed to prepare students to work as allied health professionals with people who have special needs in clinical, residential, and community-based agencies.

This option is specifically designed to meet the standards developed by the National Council for Therapeutic Recreation Certification (NCTRC) and the California Board of Recreation and Park Certification for Recreation Therapy. Successfully completing this curriculum will provide students with knowledge competencies necessary to qualify for both the National and State Therapeutic Recreation Certification Exams.

Many graduates of this option are leaders in Recreation Therapy in the San Francisco Bay Area. They work in varied locations such as rehabilitation hospitals, drug treatment programs, mental health clinics and inpatient programs, state hospitals, long term care facilities, prisons and schools.

Program Learning Outcomes

Students who graduate with a B.S. in Recreation will be able to:

1. Explain effective and sustainable solutions based on evidence to address challenges faced in the provision of recreation programs and services, management of facilities and stewardship of natural resources.
2. Identify effective leadership and teamwork strategies, management skills, methods to evaluate service quality and meet consumer needs in recreation management.
3. Articulate clearly in both written and oral formats the ethical, philosophical, historical, and administrative foundations of the recreation profession.
4. Identify techniques that contribute to a culture of dignity and respect in the recreation management profession.

Students who graduate with a B.S. in Recreation Management with a Recreation Therapy Concentration will be able to:

1. Explain stages of human development, principles of behavioral change, and models for delivery of recreation therapy programs and services.
2. Identify effective leadership and teamwork strategies, standards of practice, assessment techniques and documentation requirements in recreation therapy.
3. Articulate clearly in both written and oral formats the ethical, philosophical, historical, and administrative foundations of the recreation therapy profession.
4. Identify techniques that contribute to a culture of dignity and respect in the recreation therapy profession, based on principles of access, inclusion, and independence.

Degree Requirements Unit-Outline

- A baccalaureate of science degree requires a total of 120 units:
 - The major requirements consists of 61-70 units;
 - General Education (GE) & Graduation Requirements (GR) consists of 57 units;
 - Free Electives may consist of 0-2 units (*actual number of free elective units may depend on GE/GR units*).

Note: It may be possible to double-count units within the graduation requirements or that a course may satisfy both a graduation requirement and a major requirement. Students should contact their program and AACE advisors for information.

Recreation Major Requirements (63-69 units)

Core Courses

The Recreation Management Core is 35 units of specific courses that lay a broad foundation in the recreation/leisure industry, including a 400 hour internship. Students taking the Recreation Therapy Concentration will have a 600 hour internship to complete. In addition, students will take elective courses, if needed, to complete the degree.

- HOS 100 - Professional Preparation *Units: 2*
- HOS 300 - Marketing in Hospitality, Recreation, Recreation Therapy, and Tourism *Units: 3*
- HOS 400 - Introduction to Finance in Hospitality, Recreation, Recreation Therapy, and Tourism *Units: 3*
- HOS 450 - Data-Driven Decision Making in Hospitality, Recreation, Recreation Therapy, and Tourism *Units: 3*
- REC 100 - Introduction to Hospitality and Tourism, Recreation, and Recreation Therapy *Units: 3 ; G.E./G.R. Area: D1-3*
- REC 200 - Serving Diverse Populations in Hospitality, Recreation, Rec Therapy and Tourism *Units: 3 ; G.E./G.R. Area: D1-3; Social Justice*
- REC 215 - Special Events in Recreation *Units: 3*
- REC 230 - Introduction to Youth Development *Units: 3 ; G.E./G.R. Area: D1-3*
- REC 325 - Leadership, Management and Ethics in Hospitality, Recreation, Rec Therapy, and Tourism *Units: 3*
- REC 340 - Sustainable Facilities, Parks and Open Space *Units: 3 ; G.E./G.R. Area: Sustainability*
- REC 400 - Law, Risk and Regulation in Hospitality, Recreation, Rec Therapy, and Tourism *Units: 3*
- REC 425 - Strategic Positioning in Recreation *Units: 3*

Concentrations

To complete the Recreation Management major students must choose either one (1) of the following concentrations or 26 units of pre-approved electives:

- Recreation, B.S. (Available Online) (26 units of pre-approved electives)
- Recreation, B.S.: Recreation Therapy Concentration (Available Online) (33 units)
- Recreation, B.S.: Sustainability Concentration (26 units)
- Recreation, B.S.: Youth Development Programming Concentration (26 units)

Capstone Requirement

Choose the internship placement appropriate to the concentration as indicated for 1 or 2 units:

- REC 475 - Internship Placement *Units: 2 (all other concentrations)*
- REC 476 - Recreation Therapy Internship Placement *Units: 1*

Youth Development Programming Concentration

The Recreation Management concentration in Youth Development Programming is 26 units. This concentration is perfect for students interested in working with youth in camp, after school, youth sports or other related programming areas.

- REC 330 - Leadership in Small Groups *Units: 3*
- REC 430 - Youth Development: Current Issues for Youth 5-17 *Units: 3*
- REC 475 - Internship Placement *Units: 2*
- REC 480 - Internship *Units: 3-6 (see Errata section for changes to this course)*
- Plus take an additional 12-15 units of electives approved by your advisor.

Other Undergraduate Degree Requirements

In addition to major requirements, every student must also complete the University's baccalaureate requirements for graduation, which are described in the Requirements, Exams & Testing chapter of this catalog.

Department Courses Listed by Course Type

Hospitality, Recreation, and Tourism Courses

Department of Hospitality, Recreation and Tourism

Go to information for this department.

Courses

Hospitality and Tourism

- HOS 100 - Professional Preparation *Units: 2*
 - HOS 200 - Lodging Management *Units: 3*
 - HOS 205 - Tourism Management *Units: 3 ; G.E./G.R. Area: D1-3*
 - HOS 210 - Meetings, Conventions, & Special Events *Units: 3*
 - HOS 215 - Food and Beverage Management *Units: 3*
 - HOS 225 - Technology in Hospitality and Tourism *Units: 3*
 - HOS 230 - Sustainable Global Tourism Development *Units: 3 ; G.E./G.R. Area: D1-3;*
- Sustainability*
- HOS 235 - Introduction to Community Engagement *Units: 3 ; G.E./G.R. Area: E*
 - HOS 297 - Food & Culture *Units: 3 ; G.E./G.R. Area: D1-3; Social Justice*
 - HOS 298 - Customer Service for Professions *Units: 3 ; G.E./G.R. Area: D1-3*
 - HOS 299 - Professionalism & Etiquette *Units: 3 ; G.E./G.R. Area: E; Diversity*
 - HOS 300 - Marketing in Hospitality, Recreation, Recreation Therapy, and Tourism *Units: 3*
 - HOS 310 - Design & Management of Special Events in Hospitality and Tourism *Units: 3*
 - HOS 315 - Wedding Planning *Units: 3*
 - HOS 320 - Event Leadership *Units: 3*
 - HOS 335 - Introduction to Wine, Beer and Spirits *Units: 3*
 - HOS 340 - Menu Planning, Cost Control, and Purchasing *Units: 3*
 - HOS 350 - Resort and Club Management *Units: 3*
 - HOS 355 - Advanced Lodging Management *Units: 3*
 - HOS 360 - Lodging Alternatives *Units: 3*

- HOS 400 - Introduction to Finance in Hospitality, Recreation, Recreation Therapy, and Tourism *Units: 3*
- HOS 410 - Revenue Management in Hospitality and Tourism *Units: 3*
- HOS 435 - Advanced Community Engagement *Units: 3 ; G.E./G.R. Area: E*
- HOS 450 - Data-Driven Decision Making in Hospitality, Recreation, Recreation Therapy, and Tourism *Units: 3*
- HOS 475 - Internship Placement *Units: 1*
- HOS 490 - Independent Study *Units: 1-3*
- HOS 497 - Issues in Hospitality & Tourism *Units: 1-3*
- HOS 498 - Internship *Units: 3-6*

Recreation

- REC 100 - Introduction to Hospitality and Tourism, Recreation, and Recreation Therapy *Units: 3 ; G.E./G.R. Area: D1-3*
- REC 110 - Foundations of Sustainability in Hospitality, Recreation and Tourism *Units: 3 ; G.E./G.R. Area: Sustainability*
- REC 200 - Serving Diverse Populations in Hospitality, Recreation, Rec Therapy and Tourism *Units: 3 ; G.E./G.R. Area: D1-3; Social Justice*
- REC 210 - Programming in Community Recreation, Sport and Camp *Units: 3*
- REC 215 - Special Events in Recreation *Units: 3*
- REC 230 - Introduction to Youth Development *Units: 3 ; G.E./G.R. Area: D1-3*
- REC 235 - Leisure, Self, and Society *Units: 3 ; G.E./G.R. Area: D1-3*
- REC 300 - Wellness Through Leisure *Units: 3 ; G.E./G.R. Area: D4*
- REC 310 - Women and Leisure *Units: 3 ; G.E./G.R. Area: D4*
- REC 320 - Aquatic Management *Units: 3*
- REC 321 - Resident and Day Camp Administration *Units: 3*
- REC 325 - Leadership, Management and Ethics in Hospitality, Recreation, Rec Therapy, and Tourism *Units: 3*
- REC 330 - Leadership in Small Groups *Units: 3*
- REC 340 - Sustainable Facilities, Parks and Open Space *Units: 3 ; G.E./G.R. Area: Sustainability*
- REC 355 - Community Sustainability in Hospitality, Recreation and Tourism *Units: 3*
- REC 360 - Foundations in Recreation Therapy *Units: 3 ; G.E./G.R. Area: E*
- REC 361 - Recreation Therapy Diagnostic Groupings *Units: 3*
- REC 362 - Recreation Therapy Documentation & Assessment *Units: 3*
- REC 363 - Recreation Therapy Process & Techniques *Units: 3*
- REC 364 - Recreation Therapy Program Planning & Implementation *Units: 3*
- REC 365 - Advancement of Recreation Therapy Profession and Management *Units: 3*
- REC 400 - Law, Risk and Regulation in Hospitality, Recreation, Rec Therapy, and Tourism *Units: 3*
- REC 425 - Strategic Positioning in Recreation *Units: 3*
- REC 430 - Youth Development: Current Issues for Youth 5-17 *Units: 3*
- REC 475 - Internship Placement *Units: 2*
- REC 476 - Recreation Therapy Internship Placement *Units: 1*
- REC 480 - Internship *Units: 3-6*
- REC 481 - Recreation Therapy Internship *Units: 3-6*
- REC 490 - Independent Study *Units: 1-3*
- REC 497 - Issues in Recreation *Units: 1-3*

Hospitality, Recreation and Tourism: Graduate

- REC 600 - Foundations of Hospitality, Recreation and Tourism *Units: 3*
- REC 610 - Strategic Leadership and Ethics in Hospitality, Recreation and Tourism *Units: 3*
- REC 620 - Organizational Development in Hospitality, Recreation and Tourism *Units: 3*

- • REC 630 - Research Methods in Hospitality, Recreation and Tourism *Units: 3*
- • REC 640 - Law and Risk in Hospitality, Recreation and Tourism *Units: 3*
- • REC 650 - Fiscal Management in Hospitality, Recreation and Tourism *Units: 3*
- • REC 660 - Sustainable Solutions in Hospitality, Recreation and Tourism *Units: 3*
- • REC 670 - Advanced Marketing in Hospitality, Recreation and Tourism *Units: 3*
- • REC 693A - Applied Research Project I *Units: 3*
- • REC 693B - Applied Research Project II *Units: 3*
- • REC 697 - Special Issues in Hospitality, Recreation and Tourism *Units: 1-3*

Bachelor Online Degree Completion

Hospitality and Tourism, B.S. (Available Online)

Hospitality and Tourism, B.S. Program (120 units)

Program Description

CSU East Bay's Hospitality and Tourism program prepares students to join and advance in the dynamic, growing and exciting hospitality and tourism industry. A variety of career possibilities are available to students in the hospitality and tourism industry, known as one of the largest employers in the world.

The Hospitality and Tourism program provides students with the knowledge they need in various industry sectors such as restaurant/food service, hotel/resort, special event/meeting planning and many others. The program offers the following three areas of concentration: Event Planning and Management, Food and Beverage, and Lodging, Resort and Club Management. Students have the option to select elective courses that suit their interests in place of an area of concentration, with advisor approval, either from existing department curriculum or select courses from other fields.

The hospitality and tourism program provides students with skills related to leadership, communication, technology, research, and problem solving along with the creativity they need to excel in their profession. Combined with work experience, this preparation enables graduates to access a variety of professional opportunities in hospitality and tourism companies in the San Francisco Bay area, a highly ranked tourist destination, and around the world.

CSU Hospitality and Tourism program strives to meet the needs and wants of hospitality and tourism leaders who seek smart, human-driven, quality, practical-oriented and dedicated individuals to help lead the growth of this dynamic industry. Graduates have a career in a field characterized as non-routine and exciting. They enjoy opportunities for career advancements, contribute to others' quality of life, travel, and meet individuals from around the world.

Program Learning Outcomes

Students graduating with a B.S. in Hospitality and Tourism from Cal State East Bay will:

1. Explain effective and sustainable solutions based on evidence to address challenges faced in the provision of lodging, food services, travel and event management.
2. Identify effective leadership and teamwork strategies, management skills, methods to evaluate service quality and meet consumer needs in hospitality and tourism.

3. Articulate clearly in both written and oral formats the ethical, philosophical, historical, and administrative foundations of the hospitality and tourism industries.
4. Identify techniques that contribute to a culture of dignity and respect in the hospitality and tourism profession

Degree Requirements Unit-Outline

- A baccalaureate of science degree requires a total of 120 units:
 - The major requirements consists of 60 units;
 - General Education (GE) & Graduation Requirements (GR) consists of 57 units;
 - Free Electives may consist of 0 units (*actual number of free elective units may depend on GE/GR units*).

Note: It may be possible to double-count units within the graduation requirements or that a course may satisfy both a graduation requirement and a major requirement. Students should contact their program and AACE advisors for information.

Hospitality, Recreation, Recreation Therapy, and Tourism Foundational Core (23 units)

The 23 units of HRT Foundational Core represents the core coursework that every undergraduate student in the Hospitality, Recreation and Tourism department must complete in addition to their Major Core, Electives, and Concentration to equal 60 units.

- HOS 100 - Professional Preparation *Units: 2*
- HOS 300 - Marketing in Hospitality, Recreation, Recreation Therapy, and Tourism *Units: 3*
- HOS 400 - Introduction to Finance in Hospitality, Recreation, Recreation Therapy, and Tourism *Units: 3*
- HOS 450 - Data-Driven Decision Making in Hospitality, Recreation, Recreation Therapy, and Tourism *Units: 3*
- REC 100 - Introduction to Hospitality and Tourism, Recreation, and Recreation Therapy *Units: 3 ; G.E./G.R. Area: D1-3*
- REC 200 - Serving Diverse Populations in Hospitality, Recreation, Rec Therapy and Tourism *Units: 3 ; G.E./G.R. Area: D1-3; Social Justice*
- REC 325 - Leadership, Management and Ethics in Hospitality, Recreation, Rec Therapy, and Tourism *Units: 3*
- REC 400 - Law, Risk and Regulation in Hospitality, Recreation, Rec Therapy, and Tourism *Units: 3*

Hospitality and Tourism Major Core (22-25 units)

The Hospitality and Tourism major core consists of 22-25 units of specific courses that lay a broad foundation in the hospitality and tourism industry, including a 400 hour internship.

- HOS 200 - Lodging Management *Units: 3*
- HOS 205 - Tourism Management *Units: 3 ; G.E./G.R. Area: D1-3*

- HOS 210 - Meetings, Conventions, & Special Events *Units: 3*
- HOS 215 - Food and Beverage Management *Units: 3*
- HOS 225 - Technology in Hospitality and Tourism *Units: 3*
- HOS 410 - Revenue Management in Hospitality and Tourism *Units: 3*
- HOS 475 - Internship Placement *Units: 1*
- HOS 498 - Internship *Units: 3-6*

Concentrations

To complete the degree, students can choose one of three concentrations or choose to take selected elective coursework, with the approval of an advisor, that emphasis personal goals.

- Hospitality and Tourism, B.S. (Available Online) (elective coursework)
- Hospitality and Tourism, B.S.: Event Planning and Management Concentration (Available Online)
- Hospitality and Tourism, B.S.: Food and Beverage Concentration (Available Online)
- Hospitality and Tourism, B.S.: Lodging, Resort, and Club Management Concentration (Available Online)

Elective Coursework

Students not choosing one of the three concentrations will be required to take selected electives with advisor approval as needed to total 60 units for the major.

Other Undergraduate Degree Requirements

In addition to major requirements, every student must also complete the University's baccalaureate requirements for graduation, which are described in the Requirements, Exams & Testing chapter of this catalog.

Department Courses Listed by Course Type

Hospitality, Recreation, and Tourism Courses

Department of Hospitality, Recreation and Tourism

Go to information for this department.

Courses

Hospitality and Tourism

- HOS 100 - Professional Preparation *Units: 2*
- HOS 200 - Lodging Management *Units: 3*
- HOS 205 - Tourism Management *Units: 3 ; G.E./G.R. Area: D1-3*
- HOS 210 - Meetings, Conventions, & Special Events *Units: 3*
- HOS 215 - Food and Beverage Management *Units: 3*

- • HOS 225 - Technology in Hospitality and Tourism *Units: 3*
- • HOS 230 - Sustainable Global Tourism Development *Units: 3 ; G.E./G.R. Area: D1-3;*
- Sustainability*
- • HOS 235 - Introduction to Community Engagement *Units: 3 ; G.E./G.R. Area: E*
- • HOS 297 - Food & Culture *Units: 3 ; G.E./G.R. Area: D1-3; Social Justice*
- • HOS 298 - Customer Service for Professions *Units: 3 ; G.E./G.R. Area: D1-3*
- • HOS 299 - Professionalism & Etiquette *Units: 3 ; G.E./G.R. Area: E; Diversity*
- • HOS 300 - Marketing in Hospitality, Recreation, Recreation Therapy, and Tourism *Units: 3*
- • HOS 310 - Design & Management of Special Events in Hospitality and Tourism *Units: 3*
- • HOS 315 - Wedding Planning *Units: 3*
- • HOS 320 - Event Leadership *Units: 3*
- • HOS 335 - Introduction to Wine, Beer and Spirits *Units: 3*
- • HOS 340 - Menu Planning, Cost Control, and Purchasing *Units: 3*
- • HOS 350 - Resort and Club Management *Units: 3*
- • HOS 355 - Advanced Lodging Management *Units: 3*
- • HOS 360 - Lodging Alternatives *Units: 3*
- • HOS 400 - Introduction to Finance in Hospitality, Recreation, Recreation Therapy, and Tourism *Units: 3*
- • HOS 410 - Revenue Management in Hospitality and Tourism *Units: 3*
- • HOS 435 - Advanced Community Engagement *Units: 3 ; G.E./G.R. Area: E*
- • HOS 450 - Data-Driven Decision Making in Hospitality, Recreation, Recreation Therapy, and Tourism *Units: 3*
- • HOS 475 - Internship Placement *Units: 1*
- • HOS 490 - Independent Study *Units: 1-3*
- • HOS 497 - Issues in Hospitality & Tourism *Units: 1-3*
- • HOS 498 - Internship *Units: 3-6*
- Recreation**
- • REC 100 - Introduction to Hospitality and Tourism, Recreation, and Recreation Therapy *Units: 3 ; G.E./G.R. Area: D1-3*
- • REC 110 - Foundations of Sustainability in Hospitality, Recreation and Tourism *Units: 3 ; G.E./G.R. Area: Sustainability*
- • REC 200 - Serving Diverse Populations in Hospitality, Recreation, Rec Therapy and Tourism *Units: 3 ; G.E./G.R. Area: D1-3; Social Justice*
- • REC 210 - Programming in Community Recreation, Sport and Camp *Units: 3*
- • REC 215 - Special Events in Recreation *Units: 3*
- • REC 230 - Introduction to Youth Development *Units: 3 ; G.E./G.R. Area: D1-3*
- • REC 235 - Leisure, Self, and Society *Units: 3 ; G.E./G.R. Area: D1-3*
- • REC 300 - Wellness Through Leisure *Units: 3 ; G.E./G.R. Area: D4*
- • REC 310 - Women and Leisure *Units: 3 ; G.E./G.R. Area: D4*
- • REC 320 - Aquatic Management *Units: 3*
- • REC 321 - Resident and Day Camp Administration *Units: 3*
- • REC 325 - Leadership, Management and Ethics in Hospitality, Recreation, Rec Therapy, and Tourism *Units: 3*
- • REC 330 - Leadership in Small Groups *Units: 3*
- • REC 340 - Sustainable Facilities, Parks and Open Space *Units: 3 ; G.E./G.R. Area: Sustainability*
- • REC 355 - Community Sustainability in Hospitality, Recreation and Tourism *Units: 3*
- • REC 360 - Foundations in Recreation Therapy *Units: 3 ; G.E./G.R. Area: E*
- • REC 361 - Recreation Therapy Diagnostic Groupings *Units: 3*
- • REC 362 - Recreation Therapy Documentation & Assessment *Units: 3*
- • REC 363 - Recreation Therapy Process & Techniques *Units: 3*

- • REC 364 - Recreation Therapy Program Planning & Implementation *Units: 3*
- • REC 365 - Advancement of Recreation Therapy Profession and Management *Units: 3*
- • REC 400 - Law, Risk and Regulation in Hospitality, Recreation, Rec Therapy, and Tourism

Units: 3

- • REC 425 - Strategic Positioning in Recreation *Units: 3*
- • REC 430 - Youth Development: Current Issues for Youth 5-17 *Units: 3*
- • REC 475 - Internship Placement *Units: 2*
- • REC 476 - Recreation Therapy Internship Placement *Units: 1*
- • REC 480 - Internship *Units: 3-6*
- • REC 481 - Recreation Therapy Internship *Units: 3-6*
- • REC 490 - Independent Study *Units: 1-3*
- • REC 497 - Issues in Recreation *Units: 1-3*

Hospitality, Recreation and Tourism: Graduate

- • REC 600 - Foundations of Hospitality, Recreation and Tourism *Units: 3*
- • REC 610 - Strategic Leadership and Ethics in Hospitality, Recreation and Tourism *Units: 3*
- • REC 620 - Organizational Development in Hospitality, Recreation and Tourism *Units: 3*
- • REC 630 - Research Methods in Hospitality, Recreation and Tourism *Units: 3*
- • REC 640 - Law and Risk in Hospitality, Recreation and Tourism *Units: 3*
- • REC 650 - Fiscal Management in Hospitality, Recreation and Tourism *Units: 3*
- • REC 660 - Sustainable Solutions in Hospitality, Recreation and Tourism *Units: 3*
- • REC 670 - Advanced Marketing in Hospitality, Recreation and Tourism *Units: 3*
- • REC 693A - Applied Research Project I *Units: 3*
- • REC 693B - Applied Research Project II *Units: 3*
- • REC 697 - Special Issues in Hospitality, Recreation and Tourism *Units: 1-3*

Hospitality and Tourism, B.S.: Event Planning and Management Concentration (Available Online)

Hospitality and Tourism, B.S. Program (120 units)

Program Description

CSU East Bay's Hospitality and Tourism program prepares students to join and advance in the dynamic, growing and exciting hospitality and tourism industry. A variety of career possibilities are available to students in the hospitality and tourism industry, known as one of the largest employers in the world.

The Hospitality and Tourism program provides students with the knowledge they need in various industry sectors such as restaurant/food service, hotel/resort, special event/meeting planning and many others. The program offers the following three areas of concentration: Event Planning and Management, Food and Beverage, and Lodging, Resort and Club Management. Students have the option to select elective courses that suit their interests in place of an area of concentration, with advisor approval, either from existing department curriculum or select courses from other fields.

The hospitality and tourism program provides students with skills related to leadership, communication, technology, research, and problem solving along with the creativity they need to excel in their profession. Combined with work experience, this preparation enables graduates to access a variety of professional opportunities in hospitality and tourism companies in the San Francisco Bay area, a highly ranked tourist destination, and around the world.

CSU Hospitality and Tourism program strives to meet the needs and wants of hospitality and tourism leaders who seek smart, human-driven, quality, practical-oriented and dedicated individuals to help lead the growth of this dynamic industry. Graduates have a career in a field characterized as non-routine and exciting. They enjoy opportunities for career advancements, contribute to others' quality of life, travel, and meet individuals from around the world.

Program Learning Outcomes

Students graduating with a B.S. in Hospitality and Tourism from Cal State East Bay will:

1. Explain effective and sustainable solutions based on evidence to address challenges faced in the provision of lodging, food services, travel and event management.
2. Identify effective leadership and teamwork strategies, management skills, methods to evaluate service quality and meet consumer needs in hospitality and tourism.
3. Articulate clearly in both written and oral formats the ethical, philosophical, historical, and administrative foundations of the hospitality and tourism industries.
4. Identify techniques that contribute to a culture of dignity and respect in the hospitality and tourism profession

Degree Requirements Unit-Outline

- A baccalaureate of science degree requires a total of 120 units:
 - The major requirements consists of 60 units;
 - General Education (GE) & Graduation Requirements (GR) consists of 57 units;
 - Free Electives may consist of 0 units (*actual number of free elective units may depend on GE/GR units*).

Note: It may be possible to double-count units within the graduation requirements or that a course may satisfy both a graduation requirement and a major requirement. Students should contact their program and AACE advisors for information.

Hospitality, Recreation, Recreation Therapy, and Tourism Foundational Core (23 units)

The 23 units of HRT Foundational Core represents the core coursework that every undergraduate student in the Hospitality, Recreation and Tourism department must complete in addition to their Major Core, Electives, and Concentration to equal 60 units.

- HOS 100 - Professional Preparation *Units: 2*
- HOS 300 - Marketing in Hospitality, Recreation, Recreation Therapy, and Tourism *Units: 3*
- HOS 400 - Introduction to Finance in Hospitality, Recreation, Recreation Therapy, and Tourism *Units: 3*
- HOS 450 - Data-Driven Decision Making in Hospitality, Recreation, Recreation Therapy, and Tourism *Units: 3*
- REC 100 - Introduction to Hospitality and Tourism, Recreation, and Recreation Therapy *Units: 3 ; G.E./G.R. Area: D1-3*
- REC 200 - Serving Diverse Populations in Hospitality, Recreation, Rec Therapy and Tourism *Units: 3 ; G.E./G.R. Area: D1-3; Social Justice*

- REC 325 - Leadership, Management and Ethics in Hospitality, Recreation, Rec Therapy, and Tourism *Units: 3*
- REC 400 - Law, Risk and Regulation in Hospitality, Recreation, Rec Therapy, and Tourism *Units: 3*

Hospitality and Tourism Major Core (22-25 units)

The Hospitality and Tourism major core consists of 22-25 units of specific courses that lay a broad foundation in the hospitality and tourism industry, including a 400 hour internship.

- HOS 200 - Lodging Management *Units: 3*
- HOS 205 - Tourism Management *Units: 3 ; G.E./G.R. Area: D1-3*
- HOS 210 - Meetings, Conventions, & Special Events *Units: 3*
- HOS 215 - Food and Beverage Management *Units: 3*
- HOS 225 - Technology in Hospitality and Tourism *Units: 3*
- HOS 410 - Revenue Management in Hospitality and Tourism *Units: 3*
- HOS 475 - Internship Placement *Units: 1*
- HOS 498 - Internship *Units: 3-6*

Concentrations

To complete the degree, students can choose one of three concentrations or choose to take selected elective coursework, with the approval of an advisor, that emphasis personal goals.

- Hospitality and Tourism, B.S. (Available Online) (elective coursework)
- Hospitality and Tourism, B.S.: Event Planning and Management Concentration (Available Online)
- Hospitality and Tourism, B.S.: Food and Beverage Concentration (Available Online)
- Hospitality and Tourism, B.S.: Lodging, Resort, and Club Management Concentration (Available Online)

Event Planning and Management Concentration

The event planning and management concentration is ideal for those who seek a career in the event planning industry. The following 9 units are required:

- HOS 310 - Design & Management of Special Events in Hospitality and Tourism *Units: 3*
- HOS 315 - Wedding Planning *Units: 3*
- HOS 320 - Event Leadership *Units: 3*

Electives

Selected electives with advisor approval as needed to total 60 units for the major.

Other Undergraduate Degree Requirements

In addition to major requirements, every student must also complete the University's baccalaureate requirements for graduation, which are described in the Requirements, Exams & Testing chapter of this catalog.

Department Courses Listed by Course Type

Hospitality, Recreation, and Tourism Courses

Department of Hospitality, Recreation and Tourism

Go to information for this department.

Courses

Hospitality and Tourism

- HOS 100 - Professional Preparation *Units: 2*
 - HOS 200 - Lodging Management *Units: 3*
 - HOS 205 - Tourism Management *Units: 3 ; G.E./G.R. Area: D1-3*
 - HOS 210 - Meetings, Conventions, & Special Events *Units: 3*
 - HOS 215 - Food and Beverage Management *Units: 3*
 - HOS 225 - Technology in Hospitality and Tourism *Units: 3*
 - HOS 230 - Sustainable Global Tourism Development *Units: 3 ; G.E./G.R. Area: D1-3;*
- Sustainability*
- HOS 235 - Introduction to Community Engagement *Units: 3 ; G.E./G.R. Area: E*
 - HOS 297 - Food & Culture *Units: 3 ; G.E./G.R. Area: D1-3; Social Justice*
 - HOS 298 - Customer Service for Professions *Units: 3 ; G.E./G.R. Area: D1-3*
 - HOS 299 - Professionalism & Etiquette *Units: 3 ; G.E./G.R. Area: E; Diversity*
 - HOS 300 - Marketing in Hospitality, Recreation, Recreation Therapy, and Tourism *Units: 3*
 - HOS 310 - Design & Management of Special Events in Hospitality and Tourism *Units: 3*
 - HOS 315 - Wedding Planning *Units: 3*
 - HOS 320 - Event Leadership *Units: 3*
 - HOS 335 - Introduction to Wine, Beer and Spirits *Units: 3*
 - HOS 340 - Menu Planning, Cost Control, and Purchasing *Units: 3*
 - HOS 350 - Resort and Club Management *Units: 3*
 - HOS 355 - Advanced Lodging Management *Units: 3*
 - HOS 360 - Lodging Alternatives *Units: 3*
 - HOS 400 - Introduction to Finance in Hospitality, Recreation, Recreation Therapy, and Tourism *Units: 3*
- HOS 410 - Revenue Management in Hospitality and Tourism *Units: 3*
 - HOS 435 - Advanced Community Engagement *Units: 3 ; G.E./G.R. Area: E*
 - HOS 450 - Data-Driven Decision Making in Hospitality, Recreation, Recreation Therapy, and Tourism *Units: 3*
- Tourism*
- HOS 475 - Internship Placement *Units: 1*
 - HOS 490 - Independent Study *Units: 1-3*
 - HOS 497 - Issues in Hospitality & Tourism *Units: 1-3*
 - HOS 498 - Internship *Units: 3-6*

Recreation

- • REC 100 - Introduction to Hospitality and Tourism, Recreation, and Recreation Therapy *Units: 3 ; G.E./G.R. Area: D1-3*
- • REC 110 - Foundations of Sustainability in Hospitality, Recreation and Tourism *Units: 3 ; G.E./G.R. Area: Sustainability*
- • REC 200 - Serving Diverse Populations in Hospitality, Recreation, Rec Therapy and Tourism *Units: 3 ; G.E./G.R. Area: D1-3; Social Justice*
- • REC 210 - Programming in Community Recreation, Sport and Camp *Units: 3*
- • REC 215 - Special Events in Recreation *Units: 3*
- • REC 230 - Introduction to Youth Development *Units: 3 ; G.E./G.R. Area: D1-3*
- • REC 235 - Leisure, Self, and Society *Units: 3 ; G.E./G.R. Area: D1-3*
- • REC 300 - Wellness Through Leisure *Units: 3 ; G.E./G.R. Area: D4*
- • REC 310 - Women and Leisure *Units: 3 ; G.E./G.R. Area: D4*
- • REC 320 - Aquatic Management *Units: 3*
- • REC 321 - Resident and Day Camp Administration *Units: 3*
- • REC 325 - Leadership, Management and Ethics in Hospitality, Recreation, Rec Therapy, and Tourism *Units: 3*
- • REC 330 - Leadership in Small Groups *Units: 3*
- • REC 340 - Sustainable Facilities, Parks and Open Space *Units: 3 ; G.E./G.R. Area: Sustainability*
- • REC 355 - Community Sustainability in Hospitality, Recreation and Tourism *Units: 3*
- • REC 360 - Foundations in Recreation Therapy *Units: 3 ; G.E./G.R. Area: E*
- • REC 361 - Recreation Therapy Diagnostic Groupings *Units: 3*
- • REC 362 - Recreation Therapy Documentation & Assessment *Units: 3*
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- • REC 364 - Recreation Therapy Program Planning & Implementation *Units: 3*
- • REC 365 - Advancement of Recreation Therapy Profession and Management *Units: 3*
- • REC 400 - Law, Risk and Regulation in Hospitality, Recreation, Rec Therapy, and Tourism *Units: 3*
- • REC 425 - Strategic Positioning in Recreation *Units: 3*
- • REC 430 - Youth Development: Current Issues for Youth 5-17 *Units: 3*
- • REC 475 - Internship Placement *Units: 2*
- • REC 476 - Recreation Therapy Internship Placement *Units: 1*
- • REC 480 - Internship *Units: 3-6*
- • REC 481 - Recreation Therapy Internship *Units: 3-6*
- • REC 490 - Independent Study *Units: 1-3*
- • REC 497 - Issues in Recreation *Units: 1-3*

Hospitality, Recreation and Tourism: Graduate

- • REC 600 - Foundations of Hospitality, Recreation and Tourism *Units: 3*
- • REC 610 - Strategic Leadership and Ethics in Hospitality, Recreation and Tourism *Units: 3*
- • REC 620 - Organizational Development in Hospitality, Recreation and Tourism *Units: 3*
- • REC 630 - Research Methods in Hospitality, Recreation and Tourism *Units: 3*
- • REC 640 - Law and Risk in Hospitality, Recreation and Tourism *Units: 3*
- • REC 650 - Fiscal Management in Hospitality, Recreation and Tourism *Units: 3*
- • REC 660 - Sustainable Solutions in Hospitality, Recreation and Tourism *Units: 3*
- • REC 670 - Advanced Marketing in Hospitality, Recreation and Tourism *Units: 3*
- • REC 693A - Applied Research Project I *Units: 3*
- • REC 693B - Applied Research Project II *Units: 3*
- • REC 697 - Special Issues in Hospitality, Recreation and Tourism *Units: 1-3*

Hospitality and Tourism, B.S.: Food and Beverage Concentration (Available Online)

Hospitality and Tourism, B.S. Program (120 units)

Program Description

CSU East Bay's Hospitality and Tourism program prepares students to join and advance in the dynamic, growing and exciting hospitality and tourism industry. A variety of career possibilities are available to students in the hospitality and tourism industry, known as one of the largest employers in the world.

The Hospitality and Tourism program provides students with the knowledge they need in various industry sectors such as restaurant/food service, hotel/resort, special event/meeting planning and many others. The program offers the following three areas of concentration: Event Planning and Management, Food and Beverage, and Lodging, Resort and Club Management. Students have the option to select elective courses that suit their interests in place of an area of concentration, with advisor approval, either from existing department curriculum or select courses from other fields.

The hospitality and tourism program provides students with skills related to leadership, communication, technology, research, and problem solving along with the creativity they need to excel in their profession. Combined with work experience, this preparation enables graduates to access a variety of professional opportunities in hospitality and tourism companies in the San Francisco Bay area, a highly ranked tourist destination, and around the world.

CSU Hospitality and Tourism program strives to meet the needs and wants of hospitality and tourism leaders who seek smart, human-driven, quality, practical-oriented and dedicated individuals to help lead the growth of this dynamic industry. Graduates have a career in a field characterized as non-routine and exciting. They enjoy opportunities for career advancements, contribute to others' quality of life, travel, and meet individuals from around the world.

Program Learning Outcomes

Students graduating with a B.S. in Hospitality and Tourism from Cal State East Bay will:

1. Explain effective and sustainable solutions based on evidence to address challenges faced in the provision of lodging, food services, travel and event management.
2. Identify effective leadership and teamwork strategies, management skills, methods to evaluate service quality and meet consumer needs in hospitality and tourism.
3. Articulate clearly in both written and oral formats the ethical, philosophical, historical, and administrative foundations of the hospitality and tourism industries.
4. Identify techniques that contribute to a culture of dignity and respect in the hospitality and tourism profession

Degree Requirements Unit-Outline

- A baccalaureate of science degree requires a total of 120 units:
 - The major requirements consists of 60 units;
 - General Education (GE) & Graduation Requirements (GR) consists of 57 units;

- Free Electives may consist of 0 units (*actual number of free elective units may depend on GE/GR units*).

Note: It may be possible to double-count units within the graduation requirements or that a course may satisfy both a graduation requirement and a major requirement. Students should contact their program and AACE advisors for information.

Hospitality, Recreation, Recreation Therapy, and Tourism Foundational Core (23 units)

The 23 units of HRT Foundational Core represents the core coursework that every undergraduate student in the Hospitality, Recreation and Tourism department must complete in addition to their Major Core, Electives, and Concentration to equal 60 units.

- HOS 100 - Professional Preparation *Units: 2*
- HOS 300 - Marketing in Hospitality, Recreation, Recreation Therapy, and Tourism *Units: 3*
- HOS 400 - Introduction to Finance in Hospitality, Recreation, Recreation Therapy, and Tourism *Units: 3*
- HOS 450 - Data-Driven Decision Making in Hospitality, Recreation, Recreation Therapy, and Tourism *Units: 3*
- REC 100 - Introduction to Hospitality and Tourism, Recreation, and Recreation Therapy *Units: 3 ; G.E./G.R. Area: D1-3*
- REC 200 - Serving Diverse Populations in Hospitality, Recreation, Rec Therapy and Tourism *Units: 3 ; G.E./G.R. Area: D1-3; Social Justice*
- REC 325 - Leadership, Management and Ethics in Hospitality, Recreation, Rec Therapy, and Tourism *Units: 3*
- REC 400 - Law, Risk and Regulation in Hospitality, Recreation, Rec Therapy, and Tourism *Units: 3*

Hospitality and Tourism Major Core (22-25 units)

The Hospitality and Tourism major core consists of 22-25 units of specific courses that lay a broad foundation in the hospitality and tourism industry, including a 400 hour internship.

- HOS 200 - Lodging Management *Units: 3*
- HOS 205 - Tourism Management *Units: 3 ; G.E./G.R. Area: D1-3*
- HOS 210 - Meetings, Conventions, & Special Events *Units: 3*
- HOS 215 - Food and Beverage Management *Units: 3*
- HOS 225 - Technology in Hospitality and Tourism *Units: 3*
- HOS 410 - Revenue Management in Hospitality and Tourism *Units: 3*
- HOS 475 - Internship Placement *Units: 1*
- HOS 498 - Internship *Units: 3-6*

Concentrations

To complete the degree, students can choose one of three concentrations or choose to take selected elective coursework, with the approval of an advisor, that emphasis personal goals.

- Hospitality and Tourism, B.S. (Available Online) (elective coursework)
- Hospitality and Tourism, B.S.: Event Planning and Management Concentration (Available Online)
- Hospitality and Tourism, B.S.: Food and Beverage Concentration (Available Online)
- Hospitality and Tourism, B.S.: Lodging, Resort, and Club Management Concentration (Available Online)

Food and Beverage Concentration

The food and beverage concentration is perfect for those seeking a career in restaurant management or food and beverage industry. The following 9 units are required:

- HOS 297 - Food & Culture *Units: 3 ; G.E./G.R. Area: D1-3; Social Justice*
- HOS 335 - Introduction to Wine, Beer and Spirits *Units: 3*
- HOS 340 - Menu Planning, Cost Control, and Purchasing *Units: 3*

Electives

Selected electives with advisor approval as needed to total 60 units for the major.

Other Undergraduate Degree Requirements

In addition to major requirements, every student must also complete the University's baccalaureate requirements for graduation, which are described in the Requirements, Exams & Testing chapter of this catalog.

Department Courses Listed by Course Type

Hospitality, Recreation, and Tourism Courses

Department of Hospitality, Recreation and Tourism

Go to information for this department.

Courses

Hospitality and Tourism

- HOS 100 - Professional Preparation *Units: 2*
- HOS 200 - Lodging Management *Units: 3*
- HOS 205 - Tourism Management *Units: 3 ; G.E./G.R. Area: D1-3*
- HOS 210 - Meetings, Conventions, & Special Events *Units: 3*
- HOS 215 - Food and Beverage Management *Units: 3*
- HOS 225 - Technology in Hospitality and Tourism *Units: 3*

- • HOS 230 - Sustainable Global Tourism Development *Units: 3 ; G.E./G.R. Area: D1-3;*
- Sustainability*
- • HOS 235 - Introduction to Community Engagement *Units: 3 ; G.E./G.R. Area: E*
- • HOS 297 - Food & Culture *Units: 3 ; G.E./G.R. Area: D1-3; Social Justice*
- • HOS 298 - Customer Service for Professions *Units: 3 ; G.E./G.R. Area: D1-3*
- • HOS 299 - Professionalism & Etiquette *Units: 3 ; G.E./G.R. Area: E; Diversity*
- • HOS 300 - Marketing in Hospitality, Recreation, Recreation Therapy, and Tourism *Units: 3*
- • HOS 310 - Design & Management of Special Events in Hospitality and Tourism *Units: 3*
- • HOS 315 - Wedding Planning *Units: 3*
- • HOS 320 - Event Leadership *Units: 3*
- • HOS 335 - Introduction to Wine, Beer and Spirits *Units: 3*
- • HOS 340 - Menu Planning, Cost Control, and Purchasing *Units: 3*
- • HOS 350 - Resort and Club Management *Units: 3*
- • HOS 355 - Advanced Lodging Management *Units: 3*
- • HOS 360 - Lodging Alternatives *Units: 3*
- • HOS 400 - Introduction to Finance in Hospitality, Recreation, Recreation Therapy, and Tourism *Units: 3*
- • HOS 410 - Revenue Management in Hospitality and Tourism *Units: 3*
- • HOS 435 - Advanced Community Engagement *Units: 3 ; G.E./G.R. Area: E*
- • HOS 450 - Data-Driven Decision Making in Hospitality, Recreation, Recreation Therapy, and Tourism *Units: 3*
- • HOS 475 - Internship Placement *Units: 1*
- • HOS 490 - Independent Study *Units: 1-3*
- • HOS 497 - Issues in Hospitality & Tourism *Units: 1-3*
- • HOS 498 - Internship *Units: 3-6*
- Recreation**
- • REC 100 - Introduction to Hospitality and Tourism, Recreation, and Recreation Therapy *Units: 3 ; G.E./G.R. Area: D1-3*
- • REC 110 - Foundations of Sustainability in Hospitality, Recreation and Tourism *Units: 3 ; G.E./G.R. Area: Sustainability*
- • REC 200 - Serving Diverse Populations in Hospitality, Recreation, Rec Therapy and Tourism *Units: 3 ; G.E./G.R. Area: D1-3; Social Justice*
- • REC 210 - Programming in Community Recreation, Sport and Camp *Units: 3*
- • REC 215 - Special Events in Recreation *Units: 3*
- • REC 230 - Introduction to Youth Development *Units: 3 ; G.E./G.R. Area: D1-3*
- • REC 235 - Leisure, Self, and Society *Units: 3 ; G.E./G.R. Area: D1-3*
- • REC 300 - Wellness Through Leisure *Units: 3 ; G.E./G.R. Area: D4*
- • REC 310 - Women and Leisure *Units: 3 ; G.E./G.R. Area: D4*
- • REC 320 - Aquatic Management *Units: 3*
- • REC 321 - Resident and Day Camp Administration *Units: 3*
- • REC 325 - Leadership, Management and Ethics in Hospitality, Recreation, Rec Therapy, and Tourism *Units: 3*
- • REC 330 - Leadership in Small Groups *Units: 3*
- • REC 340 - Sustainable Facilities, Parks and Open Space *Units: 3 ; G.E./G.R. Area: Sustainability*
- • REC 355 - Community Sustainability in Hospitality, Recreation and Tourism *Units: 3*
- • REC 360 - Foundations in Recreation Therapy *Units: 3 ; G.E./G.R. Area: E*
- • REC 361 - Recreation Therapy Diagnostic Groupings *Units: 3*
- • REC 362 - Recreation Therapy Documentation & Assessment *Units: 3*
- • REC 363 - Recreation Therapy Process & Techniques *Units: 3*
- • REC 364 - Recreation Therapy Program Planning & Implementation *Units: 3*

- REC 365 - Advancement of Recreation Therapy Profession and Management *Units: 3*
- REC 400 - Law, Risk and Regulation in Hospitality, Recreation, Rec Therapy, and Tourism *Units: 3*
- REC 425 - Strategic Positioning in Recreation *Units: 3*
- REC 430 - Youth Development: Current Issues for Youth 5-17 *Units: 3*
- REC 475 - Internship Placement *Units: 2*
- REC 476 - Recreation Therapy Internship Placement *Units: 1*
- REC 480 - Internship *Units: 3-6*
- REC 481 - Recreation Therapy Internship *Units: 3-6*
- REC 490 - Independent Study *Units: 1-3*
- REC 497 - Issues in Recreation *Units: 1-3*

Hospitality, Recreation and Tourism: Graduate

- REC 600 - Foundations of Hospitality, Recreation and Tourism *Units: 3*
- REC 610 - Strategic Leadership and Ethics in Hospitality, Recreation and Tourism *Units: 3*
- REC 620 - Organizational Development in Hospitality, Recreation and Tourism *Units: 3*
- REC 630 - Research Methods in Hospitality, Recreation and Tourism *Units: 3*
- REC 640 - Law and Risk in Hospitality, Recreation and Tourism *Units: 3*
- REC 650 - Fiscal Management in Hospitality, Recreation and Tourism *Units: 3*
- REC 660 - Sustainable Solutions in Hospitality, Recreation and Tourism *Units: 3*
- REC 670 - Advanced Marketing in Hospitality, Recreation and Tourism *Units: 3*
- REC 693A - Applied Research Project I *Units: 3*
- REC 693B - Applied Research Project II *Units: 3*
- REC 697 - Special Issues in Hospitality, Recreation and Tourism *Units: 1-3*

Hospitality and Tourism, B.S.: Lodging, Resort, and Club Management Concentration (Available Online)

Hospitality and Tourism, B.S. Program (120 units)

Program Description

CSU East Bay's Hospitality and Tourism program prepares students to join and advance in the dynamic, growing and exciting hospitality and tourism industry. A variety of career possibilities are available to students in the hospitality and tourism industry, known as one of the largest employers in the world.

The Hospitality and Tourism program provides students with the knowledge they need in various industry sectors such as restaurant/food service, hotel/resort, special event/meeting planning and many others. The program offers the following three areas of concentration: Event Planning and Management, Food and Beverage, and Lodging, Resort and Club Management. Students have the option to select elective courses that suit their interests in place of an area of concentration, with advisor approval, either from existing department curriculum or select courses from other fields.

The hospitality and tourism program provides students with skills related to leadership, communication, technology, research, and problem solving along with the creativity they need to excel in their profession. Combined with work experience, this preparation enables graduates to access a variety of professional opportunities in hospitality and tourism companies in the San Francisco Bay area, a highly ranked tourist destination, and around the world.

CSU Hospitality and Tourism program strives to meet the needs and wants of hospitality and tourism leaders who seek smart, human-driven, quality, practical-oriented and dedicated individuals to help lead the growth of this dynamic industry. Graduates have a career in a field characterized as non-routine and exciting. They enjoy opportunities for career advancements, contribute to others' quality of life, travel, and meet individuals from around the world.

Program Learning Outcomes

Students graduating with a B.S. in Hospitality and Tourism from Cal State East Bay will:

1. Explain effective and sustainable solutions based on evidence to address challenges faced in the provision of lodging, food services, travel and event management.
2. Identify effective leadership and teamwork strategies, management skills, methods to evaluate service quality and meet consumer needs in hospitality and tourism.
3. Articulate clearly in both written and oral formats the ethical, philosophical, historical, and administrative foundations of the hospitality and tourism industries.
4. Identify techniques that contribute to a culture of dignity and respect in the hospitality and tourism profession

Degree Requirements Unit-Outline

- A baccalaureate of science degree requires a total of 120 units:
 - The major requirements consists of 60 units;
 - General Education (GE) & Graduation Requirements (GR) consists of 57 units;
 - Free Electives may consist of 0 units (*actual number of free elective units may depend on GE/GR units*).

Note: It may be possible to double-count units within the graduation requirements or that a course may satisfy both a graduation requirement and a major requirement. Students should contact their program and AACE advisors for information.

Hospitality, Recreation, Recreation Therapy, and Tourism Foundational Core (23 units)

The 23 units of HRT Foundational Core represents the core coursework that every undergraduate student in the Hospitality, Recreation and Tourism department must complete in addition to their Major Core, Electives, and Concentration to equal 60 units.

- HOS 100 - Professional Preparation *Units: 2*
- HOS 300 - Marketing in Hospitality, Recreation, Recreation Therapy, and Tourism *Units: 3*
- HOS 400 - Introduction to Finance in Hospitality, Recreation, Recreation Therapy, and Tourism *Units: 3*
- HOS 450 - Data-Driven Decision Making in Hospitality, Recreation, Recreation Therapy, and Tourism *Units: 3*
- REC 100 - Introduction to Hospitality and Tourism, Recreation, and Recreation Therapy *Units: 3 ; G.E./G.R. Area: D1-3*
- REC 200 - Serving Diverse Populations in Hospitality, Recreation, Rec Therapy and Tourism *Units: 3 ; G.E./G.R. Area: D1-3; Social Justice*

- REC 325 - Leadership, Management and Ethics in Hospitality, Recreation, Rec Therapy, and Tourism *Units: 3*
- REC 400 - Law, Risk and Regulation in Hospitality, Recreation, Rec Therapy, and Tourism *Units: 3*

Hospitality and Tourism Major Core (22-25 units)

The Hospitality and Tourism major core consists of 22-25 units of specific courses that lay a broad foundation in the hospitality and tourism industry, including a 400 hour internship.

- HOS 200 - Lodging Management *Units: 3*
- HOS 205 - Tourism Management *Units: 3 ; G.E./G.R. Area: D1-3*
- HOS 210 - Meetings, Conventions, & Special Events *Units: 3*
- HOS 215 - Food and Beverage Management *Units: 3*
- HOS 225 - Technology in Hospitality and Tourism *Units: 3*
- HOS 410 - Revenue Management in Hospitality and Tourism *Units: 3*
- HOS 475 - Internship Placement *Units: 1*
- HOS 498 - Internship *Units: 3-6*

Concentrations

To complete the degree, students can choose one of three concentrations or choose to take selected elective coursework, with the approval of an advisor, that emphasis personal goals.

- Hospitality and Tourism, B.S. (Available Online) (elective coursework)
- Hospitality and Tourism, B.S.: Event Planning and Management Concentration (Available Online)
- Hospitality and Tourism, B.S.: Food and Beverage Concentration (Available Online)
- Hospitality and Tourism, B.S.: Lodging, Resort, and Club Management Concentration (Available Online)

Lodging, Resort, and Club Management Concentration

The lodging, resort, and club management concentration is ideal for those who seek a career in the hotel or lodging industry or country club type atmosphere. The following 9 units are required:

- HOS 350 - Resort and Club Management *Units: 3*
- HOS 355 - Advanced Lodging Management *Units: 3*
- HOS 360 - Lodging Alternatives *Units: 3*

Electives

Selected electives with advisor approval as needed to total 60 units for the major.

Other Undergraduate Degree Requirements

In addition to major requirements, every student must also complete the University's baccalaureate requirements for graduation, which are described in the Requirements, Exams & Testing chapter of this catalog.

Department Courses Listed by Course Type

Hospitality, Recreation, and Tourism Courses

Department of Hospitality, Recreation and Tourism

Go to information for this department.

Courses

Hospitality and Tourism

- HOS 100 - Professional Preparation *Units: 2*
 - HOS 200 - Lodging Management *Units: 3*
 - HOS 205 - Tourism Management *Units: 3 ; G.E./G.R. Area: D1-3*
 - HOS 210 - Meetings, Conventions, & Special Events *Units: 3*
 - HOS 215 - Food and Beverage Management *Units: 3*
 - HOS 225 - Technology in Hospitality and Tourism *Units: 3*
 - HOS 230 - Sustainable Global Tourism Development *Units: 3 ; G.E./G.R. Area: D1-3;*
- Sustainability*
- HOS 235 - Introduction to Community Engagement *Units: 3 ; G.E./G.R. Area: E*
 - HOS 297 - Food & Culture *Units: 3 ; G.E./G.R. Area: D1-3; Social Justice*
 - HOS 298 - Customer Service for Professions *Units: 3 ; G.E./G.R. Area: D1-3*
 - HOS 299 - Professionalism & Etiquette *Units: 3 ; G.E./G.R. Area: E; Diversity*
 - HOS 300 - Marketing in Hospitality, Recreation, Recreation Therapy, and Tourism *Units: 3*
 - HOS 310 - Design & Management of Special Events in Hospitality and Tourism *Units: 3*
 - HOS 315 - Wedding Planning *Units: 3*
 - HOS 320 - Event Leadership *Units: 3*
 - HOS 335 - Introduction to Wine, Beer and Spirits *Units: 3*
 - HOS 340 - Menu Planning, Cost Control, and Purchasing *Units: 3*
 - HOS 350 - Resort and Club Management *Units: 3*
 - HOS 355 - Advanced Lodging Management *Units: 3*
 - HOS 360 - Lodging Alternatives *Units: 3*
 - HOS 400 - Introduction to Finance in Hospitality, Recreation, Recreation Therapy, and
- Tourism Units: 3*
- HOS 410 - Revenue Management in Hospitality and Tourism *Units: 3*
 - HOS 435 - Advanced Community Engagement *Units: 3 ; G.E./G.R. Area: E*
 - HOS 450 - Data-Driven Decision Making in Hospitality, Recreation, Recreation Therapy, and
- Tourism Units: 3*
- HOS 475 - Internship Placement *Units: 1*
 - HOS 490 - Independent Study *Units: 1-3*
 - HOS 497 - Issues in Hospitality & Tourism *Units: 1-3*
 - HOS 498 - Internship *Units: 3-6*

Recreation

- • REC 100 - Introduction to Hospitality and Tourism, Recreation, and Recreation Therapy *Units: 3 ; G.E./G.R. Area: D1-3*
- • REC 110 - Foundations of Sustainability in Hospitality, Recreation and Tourism *Units: 3 ; G.E./G.R. Area: Sustainability*
- • REC 200 - Serving Diverse Populations in Hospitality, Recreation, Rec Therapy and Tourism *Units: 3 ; G.E./G.R. Area: D1-3; Social Justice*
- • REC 210 - Programming in Community Recreation, Sport and Camp *Units: 3*
- • REC 215 - Special Events in Recreation *Units: 3*
- • REC 230 - Introduction to Youth Development *Units: 3 ; G.E./G.R. Area: D1-3*
- • REC 235 - Leisure, Self, and Society *Units: 3 ; G.E./G.R. Area: D1-3*
- • REC 300 - Wellness Through Leisure *Units: 3 ; G.E./G.R. Area: D4*
- • REC 310 - Women and Leisure *Units: 3 ; G.E./G.R. Area: D4*
- • REC 320 - Aquatic Management *Units: 3*
- • REC 321 - Resident and Day Camp Administration *Units: 3*
- • REC 325 - Leadership, Management and Ethics in Hospitality, Recreation, Rec Therapy, and Tourism *Units: 3*
- • REC 330 - Leadership in Small Groups *Units: 3*
- • REC 340 - Sustainable Facilities, Parks and Open Space *Units: 3 ; G.E./G.R. Area: Sustainability*
- • REC 355 - Community Sustainability in Hospitality, Recreation and Tourism *Units: 3*
- • REC 360 - Foundations in Recreation Therapy *Units: 3 ; G.E./G.R. Area: E*
- • REC 361 - Recreation Therapy Diagnostic Groupings *Units: 3*
- • REC 362 - Recreation Therapy Documentation & Assessment *Units: 3*
- • REC 363 - Recreation Therapy Process & Techniques *Units: 3*
- • REC 364 - Recreation Therapy Program Planning & Implementation *Units: 3*
- • REC 365 - Advancement of Recreation Therapy Profession and Management *Units: 3*
- • REC 400 - Law, Risk and Regulation in Hospitality, Recreation, Rec Therapy, and Tourism *Units: 3*
- • REC 425 - Strategic Positioning in Recreation *Units: 3*
- • REC 430 - Youth Development: Current Issues for Youth 5-17 *Units: 3*
- • REC 475 - Internship Placement *Units: 2*
- • REC 476 - Recreation Therapy Internship Placement *Units: 1*
- • REC 480 - Internship *Units: 3-6*
- • REC 481 - Recreation Therapy Internship *Units: 3-6*
- • REC 490 - Independent Study *Units: 1-3*
- • REC 497 - Issues in Recreation *Units: 1-3*

Hospitality, Recreation and Tourism: Graduate

- • REC 600 - Foundations of Hospitality, Recreation and Tourism *Units: 3*
- • REC 610 - Strategic Leadership and Ethics in Hospitality, Recreation and Tourism *Units: 3*
- • REC 620 - Organizational Development in Hospitality, Recreation and Tourism *Units: 3*
- • REC 630 - Research Methods in Hospitality, Recreation and Tourism *Units: 3*
- • REC 640 - Law and Risk in Hospitality, Recreation and Tourism *Units: 3*
- • REC 650 - Fiscal Management in Hospitality, Recreation and Tourism *Units: 3*
- • REC 660 - Sustainable Solutions in Hospitality, Recreation and Tourism *Units: 3*
- • REC 670 - Advanced Marketing in Hospitality, Recreation and Tourism *Units: 3*
- • REC 693A - Applied Research Project I *Units: 3*
- • REC 693B - Applied Research Project II *Units: 3*
- • REC 697 - Special Issues in Hospitality, Recreation and Tourism *Units: 1-3*

Recreation, B.S. (Available Online)

Recreation, B.S. Program (120 units)

Program Description

The Recreation degree prepares students for leadership positions in public recreation and leisure services agencies. Such work enhances the quality of life for millions of people each day across the nation. Specializations available in the degree include the Sustainability Concentration, Youth Development Programming Concentration, and a Recreation Therapy Concentration that prepares students to sit for the state RT licensing exam.

Potential jobs in this rewarding field include program coordinators, supervisors and directors in a variety of areas including day camps, sports, youth, teen and older adult activities and classes and naturalist, park ranger positions. Many graduates from our program are leaders in leisure services organizations including Concord, Livermore, Oakland, Pleasanton, San Ramon, and the East Bay Regional Park District.

The Recreation Therapy Concentration is designed to prepare students to work as allied health professionals with people who have special needs in clinical, residential, and community-based agencies. This option is specifically designed to meet the standards developed by the National Council for Therapeutic Recreation Certification (NCTRC) and the California Board of Recreation and Park Certification for Recreation Therapy. Successfully completing this curriculum will provide students with knowledge competencies necessary to qualify for both the National and State Therapeutic Recreation Certification Exams.

Many graduates of this option are leaders in Recreation Therapy in the San Francisco Bay Area. They work in varied locations such as rehabilitation hospitals, drug treatment programs, mental health clinics and inpatient programs, state hospitals, long term care facilities, prisons and schools.

Program Learning Outcomes

Students who graduate with a B.S. in Recreation will be able to:

1. Explain effective and sustainable solutions based on evidence to address challenges faced in the provision of recreation programs and services, management of facilities and stewardship of natural resources.
2. Identify effective leadership and teamwork strategies, management skills, methods to evaluate service quality and meet consumer needs in recreation management.
3. Articulate clearly in both written and oral formats the ethical, philosophical, historical, and administrative foundations of the recreation profession.
4. Identify techniques that contribute to a culture of dignity and respect in the recreation management profession.

Students who graduate with a B.S. in Recreation Management with a Recreation Therapy Concentration will be able to:

1. Explain stages of human development, principles of behavioral change, and models for delivery of recreation therapy programs and services.
2. Identify effective leadership and teamwork strategies, standards of practice, assessment techniques and documentation requirements in recreation therapy.
3. Articulate clearly in both written and oral formats the ethical, philosophical, historical, and administrative foundations of the recreation therapy profession.

4. Identify techniques that contribute to a culture of dignity and respect in the recreation therapy profession, based on principles of access, inclusion, and independence.

Degree Requirements Unit-Outline

- A baccalaureate of science degree requires a total of 120 units:
 - The major requirements consists of 61-70 units;
 - General Education (GE) & Graduation Requirements (GR) consists of 57 units;
 - Free Electives may consist of 0-2 units (*actual number of free elective units may depend on*

GE/GR units).

Note: It may be possible to double-count units within the graduation requirements or that a course may satisfy both a graduation requirement and a major requirement. Students should contact their program and AACE advisors for information.

Recreation Major Requirements (63-69 units)

Core Courses

The Recreation Management Core is 35 units of specific courses that lay a broad foundation in the recreation/leisure industry, including a 400 hour internship. Students taking the Recreation Therapy Concentration will have a 600 hour internship to complete. In addition, students will take elective courses, if needed, to complete the degree.

- HOS 100 - Professional Preparation *Units: 2*
- HOS 300 - Marketing in Hospitality, Recreation, Recreation Therapy, and Tourism *Units: 3*
- HOS 400 - Introduction to Finance in Hospitality, Recreation, Recreation Therapy, and Tourism *Units: 3*
- HOS 450 - Data-Driven Decision Making in Hospitality, Recreation, Recreation Therapy, and Tourism *Units: 3*
- REC 100 - Introduction to Hospitality and Tourism, Recreation, and Recreation Therapy *Units: 3 ; G.E./G.R. Area: D1-3*
- REC 200 - Serving Diverse Populations in Hospitality, Recreation, Rec Therapy and Tourism *Units: 3 ; G.E./G.R. Area: D1-3; Social Justice*
- REC 215 - Special Events in Recreation *Units: 3*
- REC 230 - Introduction to Youth Development *Units: 3 ; G.E./G.R. Area: D1-3*
- REC 325 - Leadership, Management and Ethics in Hospitality, Recreation, Rec Therapy, and Tourism *Units: 3*
- REC 340 - Sustainable Facilities, Parks and Open Space *Units: 3 ; G.E./G.R. Area: Sustainability*
- REC 400 - Law, Risk and Regulation in Hospitality, Recreation, Rec Therapy, and Tourism *Units: 3*
- REC 425 - Strategic Positioning in Recreation *Units: 3*

Concentrations

To complete the Recreation Management major students must choose either one (1) of the following concentrations or 26 units of pre-approved electives:

- Recreation, B.S. (Available Online) (26 units of pre-approved electives)
- Recreation, B.S.: Recreation Therapy Concentration (Available Online) (33 units)
- Recreation, B.S.: Sustainability Concentration (26 units)
- Recreation, B.S.: Youth Development Programming Concentration (26 units)

Capstone Requirement

Choose the internship placement appropriate to the concentration as indicated for 1 or 2 units:

- REC 475 - Internship Placement *Units: 2 (all other concentrations)*
- REC 476 - Recreation Therapy Internship Placement *Units: 1*

Elective Courses

Students opting out of the formal concentrations may take 26 units of pre-approved coursework by an advisor.

Department Courses Listed by Course Type

Hospitality, Recreation, and Tourism Courses

Department of Hospitality, Recreation and Tourism

Go to information for this department.

Courses

Hospitality and Tourism

- HOS 100 - Professional Preparation *Units: 2*
 - HOS 200 - Lodging Management *Units: 3*
 - HOS 205 - Tourism Management *Units: 3 ; G.E./G.R. Area: D1-3*
 - HOS 210 - Meetings, Conventions, & Special Events *Units: 3*
 - HOS 215 - Food and Beverage Management *Units: 3*
 - HOS 225 - Technology in Hospitality and Tourism *Units: 3*
 - HOS 230 - Sustainable Global Tourism Development *Units: 3 ; G.E./G.R. Area: D1-3;*
- Sustainability*
- HOS 235 - Introduction to Community Engagement *Units: 3 ; G.E./G.R. Area: E*
 - HOS 297 - Food & Culture *Units: 3 ; G.E./G.R. Area: D1-3; Social Justice*
 - HOS 298 - Customer Service for Professions *Units: 3 ; G.E./G.R. Area: D1-3*
 - HOS 299 - Professionalism & Etiquette *Units: 3 ; G.E./G.R. Area: E; Diversity*
 - HOS 300 - Marketing in Hospitality, Recreation, Recreation Therapy, and Tourism *Units: 3*
 - HOS 310 - Design & Management of Special Events in Hospitality and Tourism *Units: 3*
 - HOS 315 - Wedding Planning *Units: 3*
 - HOS 320 - Event Leadership *Units: 3*
 - HOS 335 - Introduction to Wine, Beer and Spirits *Units: 3*

- HOS 340 - Menu Planning, Cost Control, and Purchasing *Units: 3*
- HOS 350 - Resort and Club Management *Units: 3*
- HOS 355 - Advanced Lodging Management *Units: 3*
- HOS 360 - Lodging Alternatives *Units: 3*
- HOS 400 - Introduction to Finance in Hospitality, Recreation, Recreation Therapy, and Tourism *Units: 3*
- HOS 410 - Revenue Management in Hospitality and Tourism *Units: 3*
- HOS 435 - Advanced Community Engagement *Units: 3 ; G.E./G.R. Area: E*
- HOS 450 - Data-Driven Decision Making in Hospitality, Recreation, Recreation Therapy, and Tourism *Units: 3*
- HOS 475 - Internship Placement *Units: 1*
- HOS 490 - Independent Study *Units: 1-3*
- HOS 497 - Issues in Hospitality & Tourism *Units: 1-3*
- HOS 498 - Internship *Units: 3-6*

Recreation

- REC 100 - Introduction to Hospitality and Tourism, Recreation, and Recreation Therapy *Units: 3 ; G.E./G.R. Area: D1-3*
- REC 110 - Foundations of Sustainability in Hospitality, Recreation and Tourism *Units: 3 ; G.E./G.R. Area: Sustainability*
- REC 200 - Serving Diverse Populations in Hospitality, Recreation, Rec Therapy and Tourism *Units: 3 ; G.E./G.R. Area: D1-3; Social Justice*
- REC 210 - Programming in Community Recreation, Sport and Camp *Units: 3*
- REC 215 - Special Events in Recreation *Units: 3*
- REC 230 - Introduction to Youth Development *Units: 3 ; G.E./G.R. Area: D1-3*
- REC 235 - Leisure, Self, and Society *Units: 3 ; G.E./G.R. Area: D1-3*
- REC 300 - Wellness Through Leisure *Units: 3 ; G.E./G.R. Area: D4*
- REC 310 - Women and Leisure *Units: 3 ; G.E./G.R. Area: D4*
- REC 320 - Aquatic Management *Units: 3*
- REC 321 - Resident and Day Camp Administration *Units: 3*
- REC 325 - Leadership, Management and Ethics in Hospitality, Recreation, Rec Therapy, and Tourism *Units: 3*
- REC 330 - Leadership in Small Groups *Units: 3*
- REC 340 - Sustainable Facilities, Parks and Open Space *Units: 3 ; G.E./G.R. Area: Sustainability*
- REC 355 - Community Sustainability in Hospitality, Recreation and Tourism *Units: 3*
- REC 360 - Foundations in Recreation Therapy *Units: 3 ; G.E./G.R. Area: E*
- REC 361 - Recreation Therapy Diagnostic Groupings *Units: 3*
- REC 362 - Recreation Therapy Documentation & Assessment *Units: 3*
- REC 363 - Recreation Therapy Process & Techniques *Units: 3*
- REC 364 - Recreation Therapy Program Planning & Implementation *Units: 3*
- REC 365 - Advancement of Recreation Therapy Profession and Management *Units: 3*
- REC 400 - Law, Risk and Regulation in Hospitality, Recreation, Rec Therapy, and Tourism *Units: 3*
- REC 425 - Strategic Positioning in Recreation *Units: 3*
- REC 430 - Youth Development: Current Issues for Youth 5-17 *Units: 3*
- REC 475 - Internship Placement *Units: 2*
- REC 476 - Recreation Therapy Internship Placement *Units: 1*
- REC 480 - Internship *Units: 3-6*
- REC 481 - Recreation Therapy Internship *Units: 3-6*
- REC 490 - Independent Study *Units: 1-3*
- REC 497 - Issues in Recreation *Units: 1-3*

Hospitality, Recreation and Tourism: Graduate

- • REC 600 - Foundations of Hospitality, Recreation and Tourism *Units: 3*
- • REC 610 - Strategic Leadership and Ethics in Hospitality, Recreation and Tourism *Units: 3*
- • REC 620 - Organizational Development in Hospitality, Recreation and Tourism *Units: 3*
- • REC 630 - Research Methods in Hospitality, Recreation and Tourism *Units: 3*
- • REC 640 - Law and Risk in Hospitality, Recreation and Tourism *Units: 3*
- • REC 650 - Fiscal Management in Hospitality, Recreation and Tourism *Units: 3*
- • REC 660 - Sustainable Solutions in Hospitality, Recreation and Tourism *Units: 3*
- • REC 670 - Advanced Marketing in Hospitality, Recreation and Tourism *Units: 3*
- • REC 693A - Applied Research Project I *Units: 3*
- • REC 693B - Applied Research Project II *Units: 3*
- • REC 697 - Special Issues in Hospitality, Recreation and Tourism *Units: 1-3*

Recreation, B.S.: Recreation Therapy Concentration (Available Online)

Recreation, B.S. Program (120 units)

Program Description

The Recreation degree prepares students for leadership positions in public recreation and leisure services agencies. Such work enhances the quality of life for millions of people each day across the nation. Specializations available in the degree include the Sustainability Concentration, Youth Development Programming Concentration, and a Recreation Therapy Concentration that prepares students to sit for the state RT licensing exam.

Potential jobs in this rewarding field include program coordinators, supervisors and directors in a variety of areas including day camps, sports, youth, teen and older adult activities and classes and naturalist, park ranger positions. Many graduates from our program are leaders in leisure services organizations including Concord, Livermore, Oakland, Pleasanton, San Ramon, and the East Bay Regional Park District.

The Recreation Therapy Concentration is designed to prepare students to work as allied health professionals with people who have special needs in clinical, residential, and community-based agencies. This option is specifically designed to meet the standards developed by the National Council for Therapeutic Recreation Certification (NCTRC) and the California Board of Recreation and Park Certification for Recreation Therapy. Successfully completing this curriculum will provide students with knowledge competencies necessary to qualify for both the National and State Therapeutic Recreation Certification Exams.

Many graduates of this option are leaders in Recreation Therapy in the San Francisco Bay Area. They work in varied locations such as rehabilitation hospitals, drug treatment programs, mental health clinics and inpatient programs, state hospitals, long term care facilities, prisons and schools.

Program Learning Outcomes

Students who graduate with a B.S. in Recreation will be able to:

1. Explain effective and sustainable solutions based on evidence to address challenges faced in the provision of recreation programs and services, management of facilities and stewardship of natural resources.

2. Identify effective leadership and teamwork strategies, management skills, methods to evaluate service quality and meet consumer needs in recreation management.
3. Articulate clearly in both written and oral formats the ethical, philosophical, historical, and administrative foundations of the recreation profession.
4. Identify techniques that contribute to a culture of dignity and respect in the recreation management profession.

Students who graduate with a B.S. in Recreation Management with a Recreation Therapy Concentration will be able to:

1. Explain stages of human development, principles of behavioral change, and models for delivery of recreation therapy programs and services.
2. Identify effective leadership and teamwork strategies, standards of practice, assessment techniques and documentation requirements in recreation therapy.
3. Articulate clearly in both written and oral formats the ethical, philosophical, historical, and administrative foundations of the recreation therapy profession.
4. Identify techniques that contribute to a culture of dignity and respect in the recreation therapy profession, based on principles of access, inclusion, and independence.

Degree Requirements Unit-Outline

- A baccalaureate of science degree requires a total of 120 units:
 - The major requirements consists of 61-70 units;
 - General Education (GE) & Graduation Requirements (GR) consists of 57 units;
 - Free Electives may consist of 0-2 units (*actual number of free elective units may depend on GE/GR units*).

Note: It may be possible to double-count units within the graduation requirements or that a course may satisfy both a graduation requirement and a major requirement. Students should contact their program and AAC&E advisors for information.

Recreation Major Requirements (63-69 units)

Core Courses

The Recreation Management Core is 35 units of specific courses that lay a broad foundation in the recreation/leisure industry, including a 400 hour internship. Students taking the Recreation Therapy Concentration will have a 600 hour internship to complete. In addition, students will take elective courses, if needed, to complete the degree.

- HOS 100 - Professional Preparation *Units: 2*
- HOS 300 - Marketing in Hospitality, Recreation, Recreation Therapy, and Tourism *Units: 3*
- HOS 400 - Introduction to Finance in Hospitality, Recreation, Recreation Therapy, and Tourism *Units: 3*
- HOS 450 - Data-Driven Decision Making in Hospitality, Recreation, Recreation Therapy, and Tourism *Units: 3*
- REC 100 - Introduction to Hospitality and Tourism, Recreation, and Recreation Therapy *Units: 3 ; G.E./G.R. Area: D1-3*

- REC 200 - Serving Diverse Populations in Hospitality, Recreation, Rec Therapy and Tourism *Units: 3 ; G.E./G.R. Area: D1-3; Social Justice*
- REC 215 - Special Events in Recreation *Units: 3*
- REC 230 - Introduction to Youth Development *Units: 3 ; G.E./G.R. Area: D1-3*
- REC 325 - Leadership, Management and Ethics in Hospitality, Recreation, Rec Therapy, and Tourism *Units: 3*
- REC 340 - Sustainable Facilities, Parks and Open Space *Units: 3 ; G.E./G.R. Area: Sustainability*
- REC 400 - Law, Risk and Regulation in Hospitality, Recreation, Rec Therapy, and Tourism *Units: 3*
- REC 425 - Strategic Positioning in Recreation *Units: 3*

Concentrations

To complete the Recreation Management major students must choose either one (1) of the following concentrations or 26 units of pre-approved electives:

- Recreation, B.S. (Available Online) (26 units of pre-approved electives)
- Recreation, B.S.: Recreation Therapy Concentration (Available Online) (33 units)
- Recreation, B.S.: Sustainability Concentration (26 units)
- Recreation, B.S.: Youth Development Programming Concentration (26 units)

Capstone Requirement

Choose the internship placement appropriate to the concentration as indicated for 1 or 2 units:

- REC 475 - Internship Placement *Units: 2 (all other concentrations)*
- REC 476 - Recreation Therapy Internship Placement *Units: 1*

Recreation Therapy Concentration

The Recreation Therapy concentration for 33 units is designed to prepare students to work as allied health professionals with people who have special needs in clinical, residential, and community-based agencies. This option is specifically designed to meet the standards developed by the National Council for Therapeutic Recreation Certification (NCTRC) and the California Board of Recreation and Park Certification for Recreation Therapy.

Please Note: A grade of C- or better is required in all REC courses in order to count toward the licensing process.

- BIOL 270 - Human Anatomy & Physiology I *Units: 4 ; G.E./G.R. Area: B2, B3*
- HDEV 380 - Lifespan Human Development *Units: 3 ; G.E./G.R. Area: D4*
- PSYC 381 - Psychopathology *Units: 4*
- REC 360 - Foundations in Recreation Therapy *Units: 3 ; G.E./G.R. Area: E*
- REC 361 - Recreation Therapy Diagnostic Groupings *Units: 3*
- REC 362 - Recreation Therapy Documentation & Assessment *Units: 3*
- REC 363 - Recreation Therapy Process & Techniques *Units: 3*

- REC 364 - Recreation Therapy Program Planning & Implementation *Units: 3*
- REC 365 - Advancement of Recreation Therapy Profession and Management *Units: 3*
- REC 481 - Recreation Therapy Internship *Units: 3-6 (to be taken for a minimum of 4 units)*

Other Undergraduate Degree Requirements

In addition to major requirements, every student must also complete the University's baccalaureate requirements for graduation, which are described in the Requirements, Exams & Testing chapter of this catalog.

Department Courses Listed by Course Type

Hospitality, Recreation, and Tourism Courses

Department of Hospitality, Recreation and Tourism

Go to information for this department.

Courses

Hospitality and Tourism

- HOS 100 - Professional Preparation *Units: 2*
 - HOS 200 - Lodging Management *Units: 3*
 - HOS 205 - Tourism Management *Units: 3 ; G.E./G.R. Area: D1-3*
 - HOS 210 - Meetings, Conventions, & Special Events *Units: 3*
 - HOS 215 - Food and Beverage Management *Units: 3*
 - HOS 225 - Technology in Hospitality and Tourism *Units: 3*
 - HOS 230 - Sustainable Global Tourism Development *Units: 3 ; G.E./G.R. Area: D1-3;*
- Sustainability*
- HOS 235 - Introduction to Community Engagement *Units: 3 ; G.E./G.R. Area: E*
 - HOS 297 - Food & Culture *Units: 3 ; G.E./G.R. Area: D1-3; Social Justice*
 - HOS 298 - Customer Service for Professions *Units: 3 ; G.E./G.R. Area: D1-3*
 - HOS 299 - Professionalism & Etiquette *Units: 3 ; G.E./G.R. Area: E; Diversity*
 - HOS 300 - Marketing in Hospitality, Recreation, Recreation Therapy, and Tourism *Units: 3*
 - HOS 310 - Design & Management of Special Events in Hospitality and Tourism *Units: 3*
 - HOS 315 - Wedding Planning *Units: 3*
 - HOS 320 - Event Leadership *Units: 3*
 - HOS 335 - Introduction to Wine, Beer and Spirits *Units: 3*
 - HOS 340 - Menu Planning, Cost Control, and Purchasing *Units: 3*
 - HOS 350 - Resort and Club Management *Units: 3*
 - HOS 355 - Advanced Lodging Management *Units: 3*
 - HOS 360 - Lodging Alternatives *Units: 3*
 - HOS 400 - Introduction to Finance in Hospitality, Recreation, Recreation Therapy, and Tourism *Units: 3*
 - HOS 410 - Revenue Management in Hospitality and Tourism *Units: 3*

- HOS 435 - Advanced Community Engagement *Units: 3 ; G.E./G.R. Area: E*
- HOS 450 - Data-Driven Decision Making in Hospitality, Recreation, Recreation Therapy, and Tourism *Units: 3*
- HOS 475 - Internship Placement *Units: 1*
- HOS 490 - Independent Study *Units: 1-3*
- HOS 497 - Issues in Hospitality & Tourism *Units: 1-3*
- HOS 498 - Internship *Units: 3-6*

Recreation

- REC 100 - Introduction to Hospitality and Tourism, Recreation, and Recreation Therapy *Units: 3 ; G.E./G.R. Area: D1-3*
- REC 110 - Foundations of Sustainability in Hospitality, Recreation and Tourism *Units: 3 ; G.E./G.R. Area: Sustainability*
- REC 200 - Serving Diverse Populations in Hospitality, Recreation, Rec Therapy and Tourism *Units: 3 ; G.E./G.R. Area: D1-3; Social Justice*
- REC 210 - Programming in Community Recreation, Sport and Camp *Units: 3*
- REC 215 - Special Events in Recreation *Units: 3*
- REC 230 - Introduction to Youth Development *Units: 3 ; G.E./G.R. Area: D1-3*
- REC 235 - Leisure, Self, and Society *Units: 3 ; G.E./G.R. Area: D1-3*
- REC 300 - Wellness Through Leisure *Units: 3 ; G.E./G.R. Area: D4*
- REC 310 - Women and Leisure *Units: 3 ; G.E./G.R. Area: D4*
- REC 320 - Aquatic Management *Units: 3*
- REC 321 - Resident and Day Camp Administration *Units: 3*
- REC 325 - Leadership, Management and Ethics in Hospitality, Recreation, Rec Therapy, and Tourism *Units: 3*
- REC 330 - Leadership in Small Groups *Units: 3*
- REC 340 - Sustainable Facilities, Parks and Open Space *Units: 3 ; G.E./G.R. Area: Sustainability*
- REC 355 - Community Sustainability in Hospitality, Recreation and Tourism *Units: 3*
- REC 360 - Foundations in Recreation Therapy *Units: 3 ; G.E./G.R. Area: E*
- REC 361 - Recreation Therapy Diagnostic Groupings *Units: 3*
- REC 362 - Recreation Therapy Documentation & Assessment *Units: 3*
- REC 363 - Recreation Therapy Process & Techniques *Units: 3*
- REC 364 - Recreation Therapy Program Planning & Implementation *Units: 3*
- REC 365 - Advancement of Recreation Therapy Profession and Management *Units: 3*
- REC 400 - Law, Risk and Regulation in Hospitality, Recreation, Rec Therapy, and Tourism *Units: 3*
- REC 425 - Strategic Positioning in Recreation *Units: 3*
- REC 430 - Youth Development: Current Issues for Youth 5-17 *Units: 3*
- REC 475 - Internship Placement *Units: 2*
- REC 476 - Recreation Therapy Internship Placement *Units: 1*
- REC 480 - Internship *Units: 3-6*
- REC 481 - Recreation Therapy Internship *Units: 3-6*
- REC 490 - Independent Study *Units: 1-3*
- REC 497 - Issues in Recreation *Units: 1-3*

Hospitality, Recreation and Tourism: Graduate

- REC 600 - Foundations of Hospitality, Recreation and Tourism *Units: 3*
- REC 610 - Strategic Leadership and Ethics in Hospitality, Recreation and Tourism *Units: 3*
- REC 620 - Organizational Development in Hospitality, Recreation and Tourism *Units: 3*
- REC 630 - Research Methods in Hospitality, Recreation and Tourism *Units: 3*
- REC 640 - Law and Risk in Hospitality, Recreation and Tourism *Units: 3*
- REC 650 - Fiscal Management in Hospitality, Recreation and Tourism *Units: 3*

- REC 660 - Sustainable Solutions in Hospitality, Recreation and Tourism *Units: 3*
- REC 670 - Advanced Marketing in Hospitality, Recreation and Tourism *Units: 3*
- REC 693A - Applied Research Project I *Units: 3*
- REC 693B - Applied Research Project II *Units: 3*
- REC 697 - Special Issues in Hospitality, Recreation and Tourism *Units: 1-3*

Master Online Degree Programs

Hospitality, Recreation and Tourism, M.S. (Online Only Program)

Hospitality, Recreation and Tourism, M.S. Program

Program Description

In our diverse world, managing organizations has become more complex. A master's degree provides an in-depth understanding of the fast-paced, increasingly difficult challenges in the world of recreation, hospitality and tourism. Through exploring literature, theories, and methods of scientific data collection, our graduates will be prepared for the working world's legal, personnel and ethical dilemmas.

This innovative program is offered completely online. Using interactive learning activities, courses are designed to challenge and inspire intellectual growth. Because the courses are all online, students can attend class when they are ready to learn rather than at a specific time, such as in the evening after a full day of work.

The courses are offered Executive Style, meaning that students take two 7-week, 3-unit courses consecutively for 4 semesters (with the exception of the Applied Research Project, which is offered during the 3rd and 4th semesters).

The program is not self-paced; discussions happen asynchronously and students complete weekly assignments. This learning method is different in that students are not only receivers of knowledge but are more actively engaged in their own learning. Students will be asked not only to absorb facts and theories but to discover and create knowledge that is useful in the real world.

Prerequisites and Criteria for Admission

Students apply to the university and the department. **Only individuals with two or more years of experience in the field should apply.**

- Baccalaureate degree from an accredited university. It is expected that most students applying for this program will have a BS in Hospitality, Recreation or Tourism.
- If your undergraduate degree is not in Hospitality, Recreation or Tourism, you may need some foundational courses. The courses will be determined when a graduate adviser or the department chair evaluates your transcripts and work experience.
- GPA of 2.75 in last 60 hours of course work is required.
- Must have 2 years of work experience in hospitality, recreation and/or tourism.
- Acceptable TOEFL minimum score of 550 for International Students, or a score above 237 on the Computer-Based TOEFL, an official transcript showing graduation with a bachelor's degree from a U.S. college or university where English is the principal language of instruction, or an official letter from the college or university certifying that English is the language of instruction.

In addition to the University Graduate Application and official transcripts from all institutions attended, individuals should submit the following application materials to the department. Admission to the University and admission to the M.S. in Hospitality, Recreation and Tourism are separate but simultaneous steps.

- A two to five page personal statement explaining reasons for pursuing the M.S. in Hospitality, Recreation and Tourism, professional goals, knowledge of the profession, and how previous study and experience will contribute to academic success in this program.
- Three current letters of recommendation from individuals who know you professionally. At least one should be from an immediate supervisor and one should come from someone who knows your academic abilities.
- Current resume detailing professional and academic achievements.

Evaluation Criteria

- Previous work experience in hospitality, recreation and/or tourism.
- GPA in previous academic study.
- Related undergraduate degree.
- Concise, clear personal statement related to the reason you want to pursue this degree; connection between professional goals of the student, previous academic study, job experience and this program; discussion of potential benefits of the degree; identification of needed changes you would like to see in the profession; references to leadership, strategic planning, and equity; references to equity; and quality of writing.
- Information from three current references related to knowledge of the profession, professional work experience and academic potential.

Advancement to Candidacy

Three categories of student status reflect student progress toward the degree: "Conditionally Classified Graduate" student, "Classified Graduate" student, and "Advancement to Candidacy" student.

1. Students achieve "Conditionally Classified Graduate" status when they have been admitted to the M.S. degree in Hospitality, Recreation and Tourism program but have not yet completed the prerequisites for "Classified Graduate" status for the degree.
2. Students achieve "Classified Graduate" status when they have satisfied the University Writing Skills Requirement. For information on meeting the University Writing Skills Requirement, see the Testing Office website at www.csueastbay.edu/testing or call 510.885.3661.
3. Students are Advanced to Candidacy when they have completed the required courses with a 3.0 or better GPA.

Note: Students who fail to maintain progress by falling below a 3.0 GPA in program graduate courses for two or more consecutive semesters will be academically disqualified from the university. All graduate degree requirements must be completed within 5 years.

Granting the Degree

Upon satisfaction of all requirements for the degree, the department will recommend that the candidate be granted the M.S. in Hospitality, Recreation and Tourism. Students must file for graduation by the second week of the semester prior to the semester in which they expect to graduate.

Career Possibilities

Recreation Program Manager • Youth Sports Manager • Event Manager • Meetings and Conference Manager • Aquatics Manager • Senior Center Manager • Resort Manager • Retirement Community Program Director • Camp Director • Preschool Director • After-school Director • Country Club Director

Features

Our student-centered department has designed this master's degree for working adults. All courses are offered completely online. Students from many different geographical areas can enroll in the program. Moreover, our friendly, accessible faculty will advise you about meeting all requirements in the most efficient manner. We have excellent industry contacts and can help you plan your future advancement in our profession as all of our faculty have been industry professionals. We are dedicated to helping you realize your dreams.

Program Learning Outcomes

Students who graduate with an M.S. in Hospitality, Recreation and Tourism from CSUEB will be able to:

1. Apply evidence-based research to generate effective, sustainable solutions related to management of personnel, facilities, operations, marketing and finance in hospitality, recreation and tourism.
2. Assess exemplary and innovative management, leadership and teamwork strategies for hospitality, recreation and tourism organizations.
3. Articulate clearly, in both written and oral formats, the foundations of the hospitality, recreation and tourism professions in terms of theory, philosophy, administrative functions and current management practices.
4. Develop a systems approach to create and sustain a culture of dignity and respect among individuals, communities, organizations and hospitality, recreation and tourism industries.

Hospitality, Recreation and Tourism Degree Requirements (30 units)

Required Courses

The following 24 units are required:

- REC 600 - Foundations of Hospitality, Recreation and Tourism *Units: 3*
- REC 610 - Strategic Leadership and Ethics in Hospitality, Recreation and Tourism *Units: 3*
- REC 620 - Organizational Development in Hospitality, Recreation and Tourism *Units: 3*
- REC 630 - Research Methods in Hospitality, Recreation and Tourism *Units: 3*
- REC 640 - Law and Risk in Hospitality, Recreation and Tourism *Units: 3*
- REC 650 - Fiscal Management in Hospitality, Recreation and Tourism *Units: 3*
- REC 660 - Sustainable Solutions in Hospitality, Recreation and Tourism *Units: 3*
- REC 670 - Advanced Marketing in Hospitality, Recreation and Tourism *Units: 3*

Note: The following course may be taken as an elective as interest in a particular topic dictates; see your program advisor:

- **REC 697 - Special Issues in Hospitality, Recreation and Tourism** *Units: 1-3*

Capstone Requirements

Complete both courses for 6 units. Contact your program advisor for scheduling direction.

- **REC 693A - Applied Research Project I** *Units: 3*
- **REC 693B - Applied Research Project II** *Units: 3*

Other Graduate & Post-Baccalaureate Degree Requirements

In addition to departmental requirements, every student must also satisfy the University requirements for graduation as described throughout this catalog. These include the 70% unit residence requirement; the five-year rule on currency of subject matter; the minimum number of units in 600-level courses; the "C" minimum grade for each graduate course; the 3.00 cumulative grade point average; and the University Writing Skills Requirement.

Note: For information on meeting the University Writing Skills Requirement, see the Testing Office website at www.csueastbay.edu/testing or call (510) 885-3661.

Department Courses Listed by Course Type

Hospitality, Recreation, and Tourism Courses

Department of Hospitality, Recreation and Tourism

Go to information for this department.

Courses

Hospitality and Tourism

- **HOS 100 - Professional Preparation** *Units: 2*
 - **HOS 200 - Lodging Management** *Units: 3*
 - **HOS 205 - Tourism Management** *Units: 3 ; G.E./G.R. Area: D1-3*
 - **HOS 210 - Meetings, Conventions, & Special Events** *Units: 3*
 - **HOS 215 - Food and Beverage Management** *Units: 3*
 - **HOS 225 - Technology in Hospitality and Tourism** *Units: 3*
 - **HOS 230 - Sustainable Global Tourism Development** *Units: 3 ; G.E./G.R. Area: D1-3;*
- Sustainability*
- **HOS 235 - Introduction to Community Engagement** *Units: 3 ; G.E./G.R. Area: E*
 - **HOS 297 - Food & Culture** *Units: 3 ; G.E./G.R. Area: D1-3; Social Justice*
 - **HOS 298 - Customer Service for Professions** *Units: 3 ; G.E./G.R. Area: D1-3*
 - **HOS 299 - Professionalism & Etiquette** *Units: 3 ; G.E./G.R. Area: E; Diversity*
 - **HOS 300 - Marketing in Hospitality, Recreation, Recreation Therapy, and Tourism** *Units: 3*
 - **HOS 310 - Design & Management of Special Events in Hospitality and Tourism** *Units: 3*
 - **HOS 315 - Wedding Planning** *Units: 3*

- HOS 320 - Event Leadership *Units: 3*
- HOS 335 - Introduction to Wine, Beer and Spirits *Units: 3*
- HOS 340 - Menu Planning, Cost Control, and Purchasing *Units: 3*
- HOS 350 - Resort and Club Management *Units: 3*
- HOS 355 - Advanced Lodging Management *Units: 3*
- HOS 360 - Lodging Alternatives *Units: 3*
- HOS 400 - Introduction to Finance in Hospitality, Recreation, Recreation Therapy, and Tourism *Units: 3*
- HOS 410 - Revenue Management in Hospitality and Tourism *Units: 3*
- HOS 435 - Advanced Community Engagement *Units: 3 ; G.E./G.R. Area: E*
- HOS 450 - Data-Driven Decision Making in Hospitality, Recreation, Recreation Therapy, and Tourism *Units: 3*
- HOS 475 - Internship Placement *Units: 1*
- HOS 490 - Independent Study *Units: 1-3*
- HOS 497 - Issues in Hospitality & Tourism *Units: 1-3*
- HOS 498 - Internship *Units: 3-6*

Recreation

- REC 100 - Introduction to Hospitality and Tourism, Recreation, and Recreation Therapy *Units: 3 ; G.E./G.R. Area: D1-3*
- REC 110 - Foundations of Sustainability in Hospitality, Recreation and Tourism *Units: 3 ; G.E./G.R. Area: Sustainability*
- REC 200 - Serving Diverse Populations in Hospitality, Recreation, Rec Therapy and Tourism *Units: 3 ; G.E./G.R. Area: D1-3; Social Justice*
- REC 210 - Programming in Community Recreation, Sport and Camp *Units: 3*
- REC 215 - Special Events in Recreation *Units: 3*
- REC 230 - Introduction to Youth Development *Units: 3 ; G.E./G.R. Area: D1-3*
- REC 235 - Leisure, Self, and Society *Units: 3 ; G.E./G.R. Area: D1-3*
- REC 300 - Wellness Through Leisure *Units: 3 ; G.E./G.R. Area: D4*
- REC 310 - Women and Leisure *Units: 3 ; G.E./G.R. Area: D4*
- REC 320 - Aquatic Management *Units: 3*
- REC 321 - Resident and Day Camp Administration *Units: 3*
- REC 325 - Leadership, Management and Ethics in Hospitality, Recreation, Rec Therapy, and Tourism *Units: 3*
- REC 330 - Leadership in Small Groups *Units: 3*
- REC 340 - Sustainable Facilities, Parks and Open Space *Units: 3 ; G.E./G.R. Area: Sustainability*
- REC 355 - Community Sustainability in Hospitality, Recreation and Tourism *Units: 3*
- REC 360 - Foundations in Recreation Therapy *Units: 3 ; G.E./G.R. Area: E*
- REC 361 - Recreation Therapy Diagnostic Groupings *Units: 3*
- REC 362 - Recreation Therapy Documentation & Assessment *Units: 3*
- REC 363 - Recreation Therapy Process & Techniques *Units: 3*
- REC 364 - Recreation Therapy Program Planning & Implementation *Units: 3*
- REC 365 - Advancement of Recreation Therapy Profession and Management *Units: 3*
- REC 400 - Law, Risk and Regulation in Hospitality, Recreation, Rec Therapy, and Tourism *Units: 3*
- REC 425 - Strategic Positioning in Recreation *Units: 3*
- REC 430 - Youth Development: Current Issues for Youth 5-17 *Units: 3*
- REC 475 - Internship Placement *Units: 2*
- REC 476 - Recreation Therapy Internship Placement *Units: 1*
- REC 480 - Internship *Units: 3-6*
- REC 481 - Recreation Therapy Internship *Units: 3-6*

- REC 490 - Independent Study *Units: 1-3*
- REC 497 - Issues in Recreation *Units: 1-3*

Hospitality, Recreation and Tourism: Graduate

- REC 600 - Foundations of Hospitality, Recreation and Tourism *Units: 3*
- REC 610 - Strategic Leadership and Ethics in Hospitality, Recreation and Tourism *Units: 3*
- REC 620 - Organizational Development in Hospitality, Recreation and Tourism *Units: 3*
- REC 630 - Research Methods in Hospitality, Recreation and Tourism *Units: 3*
- REC 640 - Law and Risk in Hospitality, Recreation and Tourism *Units: 3*
- REC 650 - Fiscal Management in Hospitality, Recreation and Tourism *Units: 3*
- REC 660 - Sustainable Solutions in Hospitality, Recreation and Tourism *Units: 3*
- REC 670 - Advanced Marketing in Hospitality, Recreation and Tourism *Units: 3*
- REC 693A - Applied Research Project I *Units: 3*
- REC 693B - Applied Research Project II *Units: 3*
- REC 697 - Special Issues in Hospitality, Recreation and Tourism *Units: 1-3*

Minor

Hospitality and Tourism Minor

Minor Requirements (24 units)

Core Coursework

Take the following 18 units:

- HOS 200 - Lodging Management *Units: 3*
- HOS 205 - Tourism Management *Units: 3 ; G.E./G.R. Area: D1-3*
- HOS 215 - Food and Beverage Management *Units: 3*
- HOS 300 - Marketing in Hospitality, Recreation, Recreation Therapy, and Tourism *Units: 3*
- HOS 400 - Introduction to Finance in Hospitality, Recreation, Recreation Therapy, and Tourism *Units: 3*
- HOS 410 - Revenue Management in Hospitality and Tourism *Units: 3*

Elective Coursework

Choose two (2) courses for 6 units from the following:

- HOS 210 - Meetings, Conventions, & Special Events *Units: 3*
- HOS 225 - Technology in Hospitality and Tourism *Units: 3*
- HOS 410 - Revenue Management in Hospitality and Tourism *Units: 3*
- REC 425 - Strategic Positioning in Recreation *Units: 3*

Department Courses Listed by Course Type

Hospitality, Recreation, and Tourism Courses

Department of Hospitality, Recreation and Tourism

Go to information for this department.

Courses

Hospitality and Tourism

- HOS 100 - Professional Preparation *Units: 2*
- HOS 200 - Lodging Management *Units: 3*
- HOS 205 - Tourism Management *Units: 3 ; G.E./G.R. Area: D1-3*
- HOS 210 - Meetings, Conventions, & Special Events *Units: 3*
- HOS 215 - Food and Beverage Management *Units: 3*
- HOS 225 - Technology in Hospitality and Tourism *Units: 3*
- HOS 230 - Sustainable Global Tourism Development *Units: 3 ; G.E./G.R. Area: D1-3;*
Sustainability
- HOS 235 - Introduction to Community Engagement *Units: 3 ; G.E./G.R. Area: E*
- HOS 297 - Food & Culture *Units: 3 ; G.E./G.R. Area: D1-3; Social Justice*
- HOS 298 - Customer Service for Professions *Units: 3 ; G.E./G.R. Area: D1-3*
- HOS 299 - Professionalism & Etiquette *Units: 3 ; G.E./G.R. Area: E; Diversity*
- HOS 300 - Marketing in Hospitality, Recreation, Recreation Therapy, and Tourism *Units: 3*
- HOS 310 - Design & Management of Special Events in Hospitality and Tourism *Units: 3*
- HOS 315 - Wedding Planning *Units: 3*
- HOS 320 - Event Leadership *Units: 3*
- HOS 335 - Introduction to Wine, Beer and Spirits *Units: 3*
- HOS 340 - Menu Planning, Cost Control, and Purchasing *Units: 3*
- HOS 350 - Resort and Club Management *Units: 3*
- HOS 355 - Advanced Lodging Management *Units: 3*
- HOS 360 - Lodging Alternatives *Units: 3*
- HOS 400 - Introduction to Finance in Hospitality, Recreation, Recreation Therapy, and
Tourism Units: 3
- HOS 410 - Revenue Management in Hospitality and Tourism *Units: 3*
- HOS 435 - Advanced Community Engagement *Units: 3 ; G.E./G.R. Area: E*
- HOS 450 - Data-Driven Decision Making in Hospitality, Recreation, Recreation Therapy, and
Tourism Units: 3
- HOS 475 - Internship Placement *Units: 1*
- HOS 490 - Independent Study *Units: 1-3*
- HOS 497 - Issues in Hospitality & Tourism *Units: 1-3*
- HOS 498 - Internship *Units: 3-6*

Recreation

- REC 100 - Introduction to Hospitality and Tourism, Recreation, and Recreation Therapy *Units: 3 ; G.E./G.R. Area: D1-3*
- REC 110 - Foundations of Sustainability in Hospitality, Recreation and Tourism *Units: 3 ; G.E./G.R. Area: Sustainability*
- REC 200 - Serving Diverse Populations in Hospitality, Recreation, Rec Therapy and Tourism *Units: 3 ; G.E./G.R. Area: D1-3; Social Justice*
- REC 210 - Programming in Community Recreation, Sport and Camp *Units: 3*
- REC 215 - Special Events in Recreation *Units: 3*

- REC 230 - Introduction to Youth Development *Units: 3 ; G.E./G.R. Area: D1-3*
 - REC 235 - Leisure, Self, and Society *Units: 3 ; G.E./G.R. Area: D1-3*
 - REC 300 - Wellness Through Leisure *Units: 3 ; G.E./G.R. Area: D4*
 - REC 310 - Women and Leisure *Units: 3 ; G.E./G.R. Area: D4*
 - REC 320 - Aquatic Management *Units: 3*
 - REC 321 - Resident and Day Camp Administration *Units: 3*
 - REC 325 - Leadership, Management and Ethics in Hospitality, Recreation, Rec Therapy, and Tourism *Units: 3*
 - REC 330 - Leadership in Small Groups *Units: 3*
 - REC 340 - Sustainable Facilities, Parks and Open Space *Units: 3 ; G.E./G.R. Area: Sustainability*
 - REC 355 - Community Sustainability in Hospitality, Recreation and Tourism *Units: 3*
 - REC 360 - Foundations in Recreation Therapy *Units: 3 ; G.E./G.R. Area: E*
 - REC 361 - Recreation Therapy Diagnostic Groupings *Units: 3*
 - REC 362 - Recreation Therapy Documentation & Assessment *Units: 3*
 - REC 363 - Recreation Therapy Process & Techniques *Units: 3*
 - REC 364 - Recreation Therapy Program Planning & Implementation *Units: 3*
 - REC 365 - Advancement of Recreation Therapy Profession and Management *Units: 3*
 - REC 400 - Law, Risk and Regulation in Hospitality, Recreation, Rec Therapy, and Tourism *Units: 3*
 - REC 425 - Strategic Positioning in Recreation *Units: 3*
 - REC 430 - Youth Development: Current Issues for Youth 5-17 *Units: 3*
 - REC 475 - Internship Placement *Units: 2*
 - REC 476 - Recreation Therapy Internship Placement *Units: 1*
 - REC 480 - Internship *Units: 3-6*
 - REC 481 - Recreation Therapy Internship *Units: 3-6*
 - REC 490 - Independent Study *Units: 1-3*
 - REC 497 - Issues in Recreation *Units: 1-3*
- Hospitality, Recreation and Tourism: Graduate**
- REC 600 - Foundations of Hospitality, Recreation and Tourism *Units: 3*
 - REC 610 - Strategic Leadership and Ethics in Hospitality, Recreation and Tourism *Units: 3*
 - REC 620 - Organizational Development in Hospitality, Recreation and Tourism *Units: 3*
 - REC 630 - Research Methods in Hospitality, Recreation and Tourism *Units: 3*
 - REC 640 - Law and Risk in Hospitality, Recreation and Tourism *Units: 3*
 - REC 650 - Fiscal Management in Hospitality, Recreation and Tourism *Units: 3*
 - REC 660 - Sustainable Solutions in Hospitality, Recreation and Tourism *Units: 3*
 - REC 670 - Advanced Marketing in Hospitality, Recreation and Tourism *Units: 3*
 - REC 693A - Applied Research Project I *Units: 3*
 - REC 693B - Applied Research Project II *Units: 3*
 - REC 697 - Special Issues in Hospitality, Recreation and Tourism *Units: 1-3*

Recreation Management Minor

Minor Requirements (24 units)

Core Coursework

Take the following 15 units of coursework:

- HOS 450 - Data-Driven Decision Making in Hospitality, Recreation, Recreation Therapy, and Tourism *Units: 3*
- REC 100 - Introduction to Hospitality and Tourism, Recreation, and Recreation Therapy *Units: 3 ; G.E./G.R. Area: D1-3*
- REC 200 - Serving Diverse Populations in Hospitality, Recreation, Rec Therapy and Tourism *Units: 3 ; G.E./G.R. Area: D1-3; Social Justice*
- REC 210 - Programming in Community Recreation, Sport and Camp *Units: 3*
- REC 325 - Leadership, Management and Ethics in Hospitality, Recreation, Rec Therapy, and Tourism *Units: 3*

Elective Coursework

Choose three (3) courses for 9 units from the following:

- HOS 435 - Advanced Community Engagement *Units: 3 ; G.E./G.R. Area: E*
- REC 230 - Introduction to Youth Development *Units: 3 ; G.E./G.R. Area: D1-3*
- REC 235 - Leisure, Self, and Society *Units: 3 ; G.E./G.R. Area: D1-3*
- REC 300 - Wellness Through Leisure *Units: 3 ; G.E./G.R. Area: D4*
- REC 310 - Women and Leisure *Units: 3 ; G.E./G.R. Area: D4*
- REC 340 - Sustainable Facilities, Parks and Open Space *Units: 3 ; G.E./G.R.*

Area: Sustainability

Department Courses Listed by Course Type

Hospitality, Recreation, and Tourism Courses

Department of Hospitality, Recreation and Tourism

Go to information for this department.

Courses

Hospitality and Tourism

- HOS 100 - Professional Preparation *Units: 2*
 - HOS 200 - Lodging Management *Units: 3*
 - HOS 205 - Tourism Management *Units: 3 ; G.E./G.R. Area: D1-3*
 - HOS 210 - Meetings, Conventions, & Special Events *Units: 3*
 - HOS 215 - Food and Beverage Management *Units: 3*
 - HOS 225 - Technology in Hospitality and Tourism *Units: 3*
 - HOS 230 - Sustainable Global Tourism Development *Units: 3 ; G.E./G.R. Area: D1-3;*
- Sustainability*
- HOS 235 - Introduction to Community Engagement *Units: 3 ; G.E./G.R. Area: E*
 - HOS 297 - Food & Culture *Units: 3 ; G.E./G.R. Area: D1-3; Social Justice*
 - HOS 298 - Customer Service for Professions *Units: 3 ; G.E./G.R. Area: D1-3*
 - HOS 299 - Professionalism & Etiquette *Units: 3 ; G.E./G.R. Area: E; Diversity*
 - HOS 300 - Marketing in Hospitality, Recreation, Recreation Therapy, and Tourism *Units: 3*

- HOS 310 - Design & Management of Special Events in Hospitality and Tourism *Units: 3*
- HOS 315 - Wedding Planning *Units: 3*
- HOS 320 - Event Leadership *Units: 3*
- HOS 335 - Introduction to Wine, Beer and Spirits *Units: 3*
- HOS 340 - Menu Planning, Cost Control, and Purchasing *Units: 3*
- HOS 350 - Resort and Club Management *Units: 3*
- HOS 355 - Advanced Lodging Management *Units: 3*
- HOS 360 - Lodging Alternatives *Units: 3*
- HOS 400 - Introduction to Finance in Hospitality, Recreation, Recreation Therapy, and Tourism *Units: 3*
- HOS 410 - Revenue Management in Hospitality and Tourism *Units: 3*
- HOS 435 - Advanced Community Engagement *Units: 3 ; G.E./G.R. Area: E*
- HOS 450 - Data-Driven Decision Making in Hospitality, Recreation, Recreation Therapy, and Tourism *Units: 3*
- HOS 475 - Internship Placement *Units: 1*
- HOS 490 - Independent Study *Units: 1-3*
- HOS 497 - Issues in Hospitality & Tourism *Units: 1-3*
- HOS 498 - Internship *Units: 3-6*

Recreation

- REC 100 - Introduction to Hospitality and Tourism, Recreation, and Recreation Therapy *Units: 3 ; G.E./G.R. Area: D1-3*
- REC 110 - Foundations of Sustainability in Hospitality, Recreation and Tourism *Units: 3 ; G.E./G.R. Area: Sustainability*
- REC 200 - Serving Diverse Populations in Hospitality, Recreation, Rec Therapy and Tourism *Units: 3 ; G.E./G.R. Area: D1-3; Social Justice*
- REC 210 - Programming in Community Recreation, Sport and Camp *Units: 3*
- REC 215 - Special Events in Recreation *Units: 3*
- REC 230 - Introduction to Youth Development *Units: 3 ; G.E./G.R. Area: D1-3*
- REC 235 - Leisure, Self, and Society *Units: 3 ; G.E./G.R. Area: D1-3*
- REC 300 - Wellness Through Leisure *Units: 3 ; G.E./G.R. Area: D4*
- REC 310 - Women and Leisure *Units: 3 ; G.E./G.R. Area: D4*
- REC 320 - Aquatic Management *Units: 3*
- REC 321 - Resident and Day Camp Administration *Units: 3*
- REC 325 - Leadership, Management and Ethics in Hospitality, Recreation, Rec Therapy, and Tourism *Units: 3*
- REC 330 - Leadership in Small Groups *Units: 3*
- REC 340 - Sustainable Facilities, Parks and Open Space *Units: 3 ; G.E./G.R. Area: Sustainability*
- REC 355 - Community Sustainability in Hospitality, Recreation and Tourism *Units: 3*
- REC 360 - Foundations in Recreation Therapy *Units: 3 ; G.E./G.R. Area: E*
- REC 361 - Recreation Therapy Diagnostic Groupings *Units: 3*
- REC 362 - Recreation Therapy Documentation & Assessment *Units: 3*
- REC 363 - Recreation Therapy Process & Techniques *Units: 3*
- REC 364 - Recreation Therapy Program Planning & Implementation *Units: 3*
- REC 365 - Advancement of Recreation Therapy Profession and Management *Units: 3*
- REC 400 - Law, Risk and Regulation in Hospitality, Recreation, Rec Therapy, and Tourism *Units: 3*
- REC 425 - Strategic Positioning in Recreation *Units: 3*
- REC 430 - Youth Development: Current Issues for Youth 5-17 *Units: 3*
- REC 475 - Internship Placement *Units: 2*
- REC 476 - Recreation Therapy Internship Placement *Units: 1*

- • REC 480 - Internship *Units: 3-6*
- • REC 481 - Recreation Therapy Internship *Units: 3-6*
- • REC 490 - Independent Study *Units: 1-3*
- • REC 497 - Issues in Recreation *Units: 1-3*

Hospitality, Recreation and Tourism: Graduate

- • REC 600 - Foundations of Hospitality, Recreation and Tourism *Units: 3*
- • REC 610 - Strategic Leadership and Ethics in Hospitality, Recreation and Tourism *Units: 3*
- • REC 620 - Organizational Development in Hospitality, Recreation and Tourism *Units: 3*
- • REC 630 - Research Methods in Hospitality, Recreation and Tourism *Units: 3*
- • REC 640 - Law and Risk in Hospitality, Recreation and Tourism *Units: 3*
- • REC 650 - Fiscal Management in Hospitality, Recreation and Tourism *Units: 3*
- • REC 660 - Sustainable Solutions in Hospitality, Recreation and Tourism *Units: 3*
- • REC 670 - Advanced Marketing in Hospitality, Recreation and Tourism *Units: 3*
- • REC 693A - Applied Research Project I *Units: 3*
- • REC 693B - Applied Research Project II *Units: 3*
- • REC 697 - Special Issues in Hospitality, Recreation and Tourism *Units: 1-3*

Department of Human Development and Women's Studies

The Department Office is located on the 3rd Floor of the Meiklejohn Hall building, Room 3069

Office Hours: 8:00 a.m. - 5:00 p.m., Monday through Friday

Dept Phone: (510) 885-3076

Faculty

Professor Emeritus

Jiansheng Guo, Ph.D. University of California, Berkeley

Professors

Steve Borish, Ph.D. Stanford University

Christina Chin-Newman, Ph.D. University of California, Santa Cruz

Lynn Comerford, Ph.D. State University of New York at Albany

Keri K. O'Neal (Chair), Ph.D. Texas Tech University

Associate Professors

Patricia Drew, Ph.D. University of California, Santa Barbara

D. Xeno Rasmusson, Ph.D. University of Georgia

Rachael Stryker, Ph.D. University of California, Berkeley

Assistant Professor

Mariana Guzzardo, Ph.D. University of Connecticut

Mission Statement

Human Development is an interdisciplinary program that integrates theory and methodology from disciplines such as anthropology, biology, linguistics, psychology, and sociology. Students majoring in Human Development explore the processes and mechanisms underlying developmental change and stability across the lifespan, and the sociocultural and historical contexts in which development takes place. The program's curriculum equips students with basic understanding of major research findings and core concepts in human development, the ability to critically analyze and evaluate theoretical and practical issues in the field, and the skills to apply their learning to diverse communities outside the university. The program strives to create an optimal learning community which values and fosters mutual learning and dialogue between and among students and faculty from diverse backgrounds.

The Mission of California State University, East Bay's Women's Studies Program is to provide undergraduate students minoring in Women's Studies with a culturally sensitive introduction to the research, literature, and methodologies of gender/Women's Studies within, social, and economic perspectives, taught by an interdisciplinary diverse faculty committed to the Program Outcomes, in order to achieve a basic understanding of local, regional, national, and global power relations and how those relationships affect issues of gender/women contemporarily and historically.

About the Department

Use our university website link to learn more about what the Human Development and Women's Studies Department has to offer.

- [Advising](#)
- [Department News](#)
- [Degree Roadmap](#)
- [Faculty Profiles](#)
- [And more...](#)

Bachelor

Human Development, B.A.: Adolescent Development Concentration

Human Development, B.A. Program (120 units)

Program Description

Human Development is an interdisciplinary program that integrates theory and methodology from disciplines such as anthropology, biology, linguistics, psychology, and sociology. The program explores the processes and mechanisms underlying developmental change and stability across the lifespan and the socio-cultural and historical contexts in which development takes place.

The Program's curriculum aims to develop in students a basic understanding of major research findings and core concepts in human development, the ability to analyze and evaluate theoretical and practical issues in the field, and the skills to apply learning to diverse communities outside the University. The Program strives to create an optimal learning community that values and fosters collaborative learning and dialogue between and among students and faculty from diverse backgrounds.

Program Learning Outcomes

Students graduating with a B.A. in Human Development from California State University, East Bay will be able to:

1. Demonstrate core knowledge in biological, psychological, and socio-cultural aspects of human development.
2. Model critical thinking ability by summarizing, comparing, synthesizing, and critiquing interdisciplinary human development perspectives.
3. Assess information; design and conduct individual and/or group research projects, and present them clearly, logically, and persuasively.
4. Identify and evaluate problems by applying human development knowledge in diverse contexts; and
5. Infer the ability to understand themselves reflectively and others empathetically.

Career Opportunities

The interdisciplinary approach of the Human Development Program provides students with excellent preparation for graduate study in a wide range of disciplines, including anthropology, education, social work, sociology, medicine, public administration, law, criminal justice, psychology, and counseling. It also prepares students to work with people of all age groups from diverse racial, cultural, ethnic, socioeconomic, religious backgrounds, and sexual orientations. Students majoring in Human Development find a variety of career options in areas such as:

Education • Social work • Health care • Counseling • Law and law enforcement • Human resource and organizational work in community or corporate settings

Features

- Human Development faculty members come from a wide range of academic disciplines, including anthropology, biology, human development, linguistics, neuropsychology, psychology, and sociology.
- Students select one of five Concentrations: Early Childhood Development, Childhood Development, Adolescent Development, Adult Development and Gerontology, or Women's Development.
- Minor in Human Development and Minor in Women's Studies (please see Women's Studies Minor) are also offered.
- As part of its commitment to educational access, the Program incorporates a broad range of educational formats, including online classes, hybrid classes that combine an online component with face-to-face interaction, and face-to-face lecture/discussion and seminar classes.
- The program also offers its major through P.A.C.E. (Program for Accelerated College Education). Please contact the P.A.C.E. office for further information.

Degree Requirements Unit-Outline

- A baccalaureate of arts degree requires a total of 120 units:
 - The major requirements consists of 53-55 units;
 - General Education (GE) & Graduation Requirements (GR) consists of 57 units;
 - Free Electives may consist of 8-10 units (*actual number of free elective units may depend on GE/GR units*).

Note: It may be possible to double-count units within the graduation requirements or that a course may satisfy both a graduation requirement and a major requirement. Students should contact their program and AACE advisors for information.

Human Development Major Requirements (53-55 units)

Lower Division Core

Select three (3) courses for 9 units from the following categories, with no more than one course from each category (each course must be a minimum of 3-units each):

1. Anthropology (cultural or social)
2. Psychology
3. Sociology
4. Human or child development
5. Ethnic or area studies
6. Human biology or physical anthropology
7. Additional categories (e.g., statistics, gerontology, developmental disabilities) may be approved by the department

Upper Division Core

The following 30 units of coursework are required:

- HDEV 300 - Introduction to Human Development for Human Development Majors *Units: 1*
- HDEV 301 - Theories of Human Development *Units: 4*
- HDEV 302 - Research Methods in Human Development *Units: 4*
- HDEV 311 - Infant and Child Development *Units: 4*
- HDEV 312 - Adolescence and Emerging Adulthood *Units: 4*
- HDEV 321 - Gender, Race & Class in Human Development *Units: 4*
- HDEV 322 - Adult Development and Aging *Units: 4*
- HDEV 400 - Futures and Careers for Human Development Majors *Units: 1*
- HDEV 401 - Applying Theories and Methods in Human Development *Units: 4*

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Concentration Requirement

Students must select one (1) of the following concentrations listed below for 10-12 units to complete the major:

- Human Development, B.A.: Adolescent Development Concentration

- Human Development, B.A.: Adult Development and Gerontology Concentration (Available Online)
- Human Development, B.A.: Childhood Development Concentration
- Human Development, B.A.: Early Childhood Development Concentration (Available Online)
- Human Development, B.A.: Women's Development Concentration (Available Online)

Senior Capstone Requirement

The following 4-unit course is required as the senior capstone:

- HDEV 499 - Senior Research Seminar *Units: 4*

Adolescent Development Concentration

Select any three (3) courses for 12 units from the following:

- HDEV 431 - Prevention and Intervention in Adolescent Development *Units: 4*
- HDEV 432 - Social Dimensions of Conflict in Adolescent and Adult Development *Units: 4*
- HDEV 433 - Technologies, Media, and Adolescence *Units: 4*
- HDEV 439 - Contemporary Research Topics in Adolescent Development *Units: 4*
- HDEV 452 - Intimate Relationships Across the Lifespan *Units: 4*
- HDEV 453 - Sexual Orientations in Human Development *Units: 4*

Other Undergraduate Degree Requirements

In addition to major requirements, every student must also complete the University's baccalaureate requirements for graduation, which are described in the Requirements, Exams & Testing chapter of this catalog.

Department Courses Listed by Course Type

Human Development and Women's Studies Courses

Department of Human Development and Women's Studies

Go to information for this department.

Courses

Human Development

- HDEV 200 - Human Development in Contemporary Society *Units: 3*
- HDEV 300 - Introduction to Human Development for Human Development Majors *Units: 1*
- HDEV 301 - Theories of Human Development *Units: 4*
- HDEV 302 - Research Methods in Human Development *Units: 4*

- HDEV 311 - Infant and Child Development *Units: 4*
- HDEV 312 - Adolescence and Emerging Adulthood *Units: 4*
- HDEV 321 - Gender, Race & Class in Human Development *Units: 4*
- HDEV 322 - Adult Development and Aging *Units: 4*
- HDEV 380 - Lifespan Human Development *Units: 3 ; G.E./G.R. Area: D4*
- HDEV 381 - Interdisciplinary Perspectives on Lifespan Human Development *Units: 3*
- HDEV 398 - Internship *Units: 1-3*
- HDEV 400 - Futures and Careers for Human Development Majors *Units: 1*
- HDEV 401 - Applying Theories and Methods in Human Development *Units: 4*
- HDEV 411 - Early Childhood Cognitive Development: Theory and Research *Units: 4*
- HDEV 412 - Early Childhood Social Development: Theory & Research *Units: 4*
- HDEV 413 - Children in Families and Communities *Units: 4*
- HDEV 414 - Creative and Artistic Development in Early Childhood *Units: 4*
- HDEV 419 - Contemporary Research Topics in Early Childhood *Units: 4*
- HDEV 421 - Child Cognitive Development: Theory and Research *Units: 4*
- HDEV 422 - Social Development of Children: Theory and Research *Units: 4*
- HDEV 423 - Child Language Development *Units: 4*
- HDEV 424 - Global Perspectives on Childhood *Units: 4*
- HDEV 429 - Contemporary Topics on Children and Youth *Units: 4*
- HDEV 431 - Prevention and Intervention in Adolescent Development *Units: 4*
- HDEV 432 - Social Dimensions of Conflict in Adolescent and Adult Development *Units: 4*
- HDEV 433 - Technologies, Media, and Adolescence *Units: 4*
- HDEV 439 - Contemporary Research Topics in Adolescent Development *Units: 4*
- HDEV 441 - Human Development and Work *Units: 4*
- HDEV 442 - Health and Aging *Units: 4*
- HDEV 449 - Contemporary Research Topics in Adulthood and Aging *Units: 4*
- HDEV 451 - Midlife Transitions *Units: 4*
- HDEV 452 - Intimate Relationships Across the Lifespan *Units: 4*
- HDEV 453 - Sexual Orientations in Human Development *Units: 4*
- HDEV 459 - Contemporary Research Topics in Women's Development *Units: 4*
- HDEV 490 - Independent Study *Units: 1-4*
- HDEV 497 - Issues in Human Development *Units: 3*
- HDEV 499 - Senior Research Seminar *Units: 4*

Women's Studies

- WOST 101 - Perspectives on Women *Units: 3*
- WOST 102 - Introduction to Feminist, Gender, and Sexuality Studies *Units: 3 ; G.E./G.R. Area:*

Diversity

- WOST 301 - Women and Work *Units: 3 ; G.E./G.R. Area: Diversity*
- WOST 302 - Women and Families *Units: 3 ; G.E./G.R. Area: Diversity*
- WOST 303 - Violence Against Women *Units: 3 ; G.E./G.R. Area: Diversity*
- WOST 401 - Feminist Theory *Units: 4 ; G.E./G.R. Area: Diversity*
- WOST 402 - Women's Bodies and Health *Units: 3 ; G.E./G.R. Area: Diversity*
- WOST 403 - Comparative Perspectives on Global Feminism *Units: 3 ; G.E./G.R. Area: Social*

Justice

- WOST 490 - Independent Study *Units: 1-4*
- WOST 497 - Issues in Women's Studies *Units: 3*

Human Development, B.A.: Childhood Development Concentration

Human Development, B.A. Program (120 units)

Program Description

Human Development is an interdisciplinary program that integrates theory and methodology from disciplines such as anthropology, biology, linguistics, psychology, and sociology. The program explores the processes and mechanisms underlying developmental change and stability across the lifespan and the socio-cultural and historical contexts in which development takes place.

The Program's curriculum aims to develop in students a basic understanding of major research findings and core concepts in human development, the ability to analyze and evaluate theoretical and practical issues in the field, and the skills to apply learning to diverse communities outside the University. The Program strives to create an optimal learning community that values and fosters collaborative learning and dialogue between and among students and faculty from diverse backgrounds.

Program Learning Outcomes

Students graduating with a B.A. in Human Development from California State University, East Bay will be able to:

1. Demonstrate core knowledge in biological, psychological, and socio-cultural aspects of human development.
2. Model critical thinking ability by summarizing, comparing, synthesizing, and critiquing interdisciplinary human development perspectives.
3. Assess information; design and conduct individual and/or group research projects, and present them clearly, logically, and persuasively.
4. Identify and evaluate problems by applying human development knowledge in diverse contexts; and
5. Infer the ability to understand themselves reflectively and others empathetically.

Career Opportunities

The interdisciplinary approach of the Human Development Program provides students with excellent preparation for graduate study in a wide range of disciplines, including anthropology, education, social work, sociology, medicine, public administration, law, criminal justice, psychology, and counseling. It also prepares students to work with people of all age groups from diverse racial, cultural, ethnic, socioeconomic, religious backgrounds, and sexual orientations. Students majoring in Human Development find a variety of career options in areas such as:

Education • Social work • Health care • Counseling • Law and law enforcement • Human resource and organizational work in community or corporate settings

Features

- Human Development faculty members come from a wide range of academic disciplines, including anthropology, biology, human development, linguistics, neuropsychology, psychology, and sociology.
- Students select one of five Concentrations: Early Childhood Development, Childhood Development, Adolescent Development, Adult Development and Gerontology, or Women's Development.

- Minor in Human Development and Minor in Women's Studies (please see Women's Studies Minor) are also offered.
- As part of its commitment to educational access, the Program incorporates a broad range of educational formats, including online classes, hybrid classes that combine an online component with face-to-face interaction, and face-to-face lecture/discussion and seminar classes.
- The program also offers its major through P.A.C.E. (Program for Accelerated College Education). Please contact the P.A.C.E. office for further information.

Degree Requirements Unit-Outline

- A baccalaureate of arts degree requires a total of 120 units:
 - The major requirements consists of 53-55 units;
 - General Education (GE) & Graduation Requirements (GR) consists of 57 units;
 - Free Electives may consist of 8-10 units (*actual number of free elective units may depend on GE/GR units*).

Note: It may be possible to double-count units within the graduation requirements or that a course may satisfy both a graduation requirement and a major requirement. Students should contact their program and AAC&E advisors for information.

Human Development Major Requirements (53-55 units)

Lower Division Core

Select three (3) courses for 9 units from the following categories, with no more than one course from each category (each course must be a minimum of 3-units each):

1. Anthropology (cultural or social)
2. Psychology
3. Sociology
4. Human or child development
5. Ethnic or area studies
6. Human biology or physical anthropology
7. Additional categories (e.g., statistics, gerontology, developmental disabilities) may be approved by the department

Upper Division Core

The following 30 units of coursework are required:

- HDEV 300 - Introduction to Human Development for Human Development Majors *Units: 1*
- HDEV 301 - Theories of Human Development *Units: 4*
- HDEV 302 - Research Methods in Human Development *Units: 4*
- HDEV 311 - Infant and Child Development *Units: 4*
- HDEV 312 - Adolescence and Emerging Adulthood *Units: 4*
- HDEV 321 - Gender, Race & Class in Human Development *Units: 4*
- HDEV 322 - Adult Development and Aging *Units: 4*
- HDEV 400 - Futures and Careers for Human Development Majors *Units: 1*

- HDEV 401 - Applying Theories and Methods in Human Development *Units: 4*

Concentration Requirement

Students must select one (1) of the following concentrations listed below for 10-12 units to complete the major:

- Human Development, B.A.: Adolescent Development Concentration
- Human Development, B.A.: Adult Development and Gerontology Concentration (Available Online)
- Human Development, B.A.: Childhood Development Concentration
- Human Development, B.A.: Early Childhood Development Concentration (Available Online)
- Human Development, B.A.: Women's Development Concentration (Available Online)

Senior Capstone Requirement

The following 4-unit course is required as the senior capstone:

- HDEV 499 - Senior Research Seminar *Units: 4*

Childhood Development Concentration

Select any three (3) courses for 12 units from the following:

- HDEV 413 - Children in Families and Communities *Units: 4*
- HDEV 421 - Child Cognitive Development: Theory and Research *Units: 4*
- HDEV 422 - Social Development of Children: Theory and Research *Units: 4*
- HDEV 423 - Child Language Development *Units: 4*
- HDEV 424 - Global Perspectives on Childhood *Units: 4*
- HDEV 429 - Contemporary Topics on Children and Youth *Units: 4*

Other Undergraduate Degree Requirements

In addition to major requirements, every student must also complete the University's baccalaureate requirements for graduation, which are described in the Requirements, Exams & Testing chapter of this catalog.

Department Courses Listed by Course Type

Human Development and Women's Studies Courses

Department of Human Development and Women's Studies

Go to information for this department.

Courses

Human Development

- HDEV 200 - Human Development in Contemporary Society *Units: 3*
- HDEV 300 - Introduction to Human Development for Human Development Majors *Units: 1*
- HDEV 301 - Theories of Human Development *Units: 4*
- HDEV 302 - Research Methods in Human Development *Units: 4*
- HDEV 311 - Infant and Child Development *Units: 4*
- HDEV 312 - Adolescence and Emerging Adulthood *Units: 4*
- HDEV 321 - Gender, Race & Class in Human Development *Units: 4*
- HDEV 322 - Adult Development and Aging *Units: 4*
- HDEV 380 - Lifespan Human Development *Units: 3 ; G.E./G.R. Area: D4*
- HDEV 381 - Interdisciplinary Perspectives on Lifespan Human Development *Units: 3*
- HDEV 398 - Internship *Units: 1-3*
- HDEV 400 - Futures and Careers for Human Development Majors *Units: 1*
- HDEV 401 - Applying Theories and Methods in Human Development *Units: 4*
- HDEV 411 - Early Childhood Cognitive Development: Theory and Research *Units: 4*
- HDEV 412 - Early Childhood Social Development: Theory & Research *Units: 4*
- HDEV 413 - Children in Families and Communities *Units: 4*
- HDEV 414 - Creative and Artistic Development in Early Childhood *Units: 4*
- HDEV 419 - Contemporary Research Topics in Early Childhood *Units: 4*
- HDEV 421 - Child Cognitive Development: Theory and Research *Units: 4*
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- HDEV 423 - Child Language Development *Units: 4*
- HDEV 424 - Global Perspectives on Childhood *Units: 4*
- HDEV 429 - Contemporary Topics on Children and Youth *Units: 4*
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- HDEV 432 - Social Dimensions of Conflict in Adolescent and Adult Development *Units: 4*
- HDEV 433 - Technologies, Media, and Adolescence *Units: 4*
- HDEV 439 - Contemporary Research Topics in Adolescent Development *Units: 4*
- HDEV 441 - Human Development and Work *Units: 4*
- HDEV 442 - Health and Aging *Units: 4*
- HDEV 449 - Contemporary Research Topics in Adulthood and Aging *Units: 4*
- HDEV 451 - Midlife Transitions *Units: 4*
- HDEV 452 - Intimate Relationships Across the Lifespan *Units: 4*
- HDEV 453 - Sexual Orientations in Human Development *Units: 4*
- HDEV 459 - Contemporary Research Topics in Women's Development *Units: 4*
- HDEV 490 - Independent Study *Units: 1-4*
- HDEV 497 - Issues in Human Development *Units: 3*
- HDEV 499 - Senior Research Seminar *Units: 4*

Women's Studies

- WOST 101 - Perspectives on Women *Units: 3*
- WOST 102 - Introduction to Feminist, Gender, and Sexuality Studies *Units: 3 ; G.E./G.R. Area:*

Diversity

- WOST 301 - Women and Work *Units: 3 ; G.E./G.R. Area: Diversity*
- WOST 302 - Women and Families *Units: 3 ; G.E./G.R. Area: Diversity*
- WOST 303 - Violence Against Women *Units: 3 ; G.E./G.R. Area: Diversity*
- WOST 401 - Feminist Theory *Units: 4 ; G.E./G.R. Area: Diversity*
- WOST 402 - Women's Bodies and Health *Units: 3 ; G.E./G.R. Area: Diversity*
- WOST 403 - Comparative Perspectives on Global Feminism *Units: 3 ; G.E./G.R. Area: Social*

Justice

- WOST 490 - Independent Study *Units: 1-4*

- WOST 497 - Issues in Women's Studies *Units: 3*

Bachelor Online Degree Completion

Human Development, B.A.: Adult Development and Gerontology Concentration (Available Online)

Human Development, B.A. Program (120 units)

Program Description

Human Development is an interdisciplinary program that integrates theory and methodology from disciplines such as anthropology, biology, linguistics, psychology, and sociology. The program explores the processes and mechanisms underlying developmental change and stability across the lifespan and the socio-cultural and historical contexts in which development takes place.

The Program's curriculum aims to develop in students a basic understanding of major research findings and core concepts in human development, the ability to analyze and evaluate theoretical and practical issues in the field, and the skills to apply learning to diverse communities outside the University. The Program strives to create an optimal learning community that values and fosters collaborative learning and dialogue between and among students and faculty from diverse backgrounds.

Program Learning Outcomes

Students graduating with a B.A. in Human Development from California State University, East Bay will be able to:

1. Demonstrate core knowledge in biological, psychological, and socio-cultural aspects of human development.
2. Model critical thinking ability by summarizing, comparing, synthesizing, and critiquing interdisciplinary human development perspectives.
3. Assess information; design and conduct individual and/or group research projects, and present them clearly, logically, and persuasively.
4. Identify and evaluate problems by applying human development knowledge in diverse contexts; and
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Career Opportunities

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Education • Social work • Health care • Counseling • Law and law enforcement • Human resource and organizational work in community or corporate settings

Features

- Human Development faculty members come from a wide range of academic disciplines, including anthropology, biology, human development, linguistics, neuropsychology, psychology, and sociology.
- Students select one of five Concentrations: Early Childhood Development, Childhood Development, Adolescent Development, Adult Development and Gerontology, or Women's Development.
- Minor in Human Development and Minor in Women's Studies (please see Women's Studies Minor) are also offered.
- As part of its commitment to educational access, the Program incorporates a broad range of educational formats, including online classes, hybrid classes that combine an online component with face-to-face interaction, and face-to-face lecture/discussion and seminar classes.
- The program also offers its major through P.A.C.E. (Program for Accelerated College Education). Please contact the P.A.C.E. office for further information.

Degree Requirements Unit-Outline

- A baccalaureate of arts degree requires a total of 120 units:
 - The major requirements consists of 53-55 units;
 - General Education (GE) & Graduation Requirements (GR) consists of 57 units;
 - Free Electives may consist of 8-10 units (*actual number of free elective units may depend on GE/GR units*).

Note: It may be possible to double-count units within the graduation requirements or that a course may satisfy both a graduation requirement and a major requirement. Students should contact their program and AACE advisors for information.

Human Development Major Requirements (53-55 units)

Lower Division Core

Select three (3) courses for 9 units from the following categories, with no more than one course from each category (each course must be a minimum of 3-units each):

1. Anthropology (cultural or social)
2. Psychology
3. Sociology
4. Human or child development
5. Ethnic or area studies
6. Human biology or physical anthropology
7. Additional categories (e.g., statistics, gerontology, developmental disabilities) may be approved by the department

Upper Division Core

The following 30 units of coursework are required:

- HDEV 300 - Introduction to Human Development for Human Development Majors *Units: 1*

- HDEV 301 - Theories of Human Development *Units: 4*
- HDEV 302 - Research Methods in Human Development *Units: 4*
- HDEV 311 - Infant and Child Development *Units: 4*
- HDEV 312 - Adolescence and Emerging Adulthood *Units: 4*
- HDEV 321 - Gender, Race & Class in Human Development *Units: 4*
- HDEV 322 - Adult Development and Aging *Units: 4*
- HDEV 400 - Futures and Careers for Human Development Majors *Units: 1*
- HDEV 401 - Applying Theories and Methods in Human Development *Units:*

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Concentration Requirement

Students must select one (1) of the following concentrations listed below for 10-12 units to complete the major:

- Human Development, B.A.: Adolescent Development Concentration
- Human Development, B.A.: Adult Development and Gerontology Concentration (Available Online)
- Human Development, B.A.: Childhood Development Concentration
- Human Development, B.A.: Early Childhood Development Concentration (Available Online)
- Human Development, B.A.: Women's Development Concentration (Available Online)

Senior Capstone Requirement

The following 4-unit course is required as the senior capstone:

- HDEV 499 - Senior Research Seminar *Units: 4*

Adult Development and Gerontology Concentration

Select any three (3) courses for 12 units from the following:

- HDEV 432 - Social Dimensions of Conflict in Adolescent and Adult Development *Units: 4*
- HDEV 441 - Human Development and Work *Units: 4*
- HDEV 442 - Health and Aging *Units: 4*
- HDEV 449 - Contemporary Research Topics in Adulthood and Aging *Units: 4*
- HDEV 451 - Midlife Transitions *Units: 4*
- HDEV 452 - Intimate Relationships Across the Lifespan *Units: 4*
- HDEV 453 - Sexual Orientations in Human Development *Units: 4*

Other Undergraduate Degree Requirements

In addition to major requirements, every student must also complete the University's baccalaureate requirements for graduation, which are described in the Requirements, Exams & Testing chapter of this catalog.

Department Courses Listed by Course Type

Human Development and Women's Studies Courses

Department of Human Development and Women's Studies

Go to information for this department.

Courses

Human Development

- HDEV 200 - Human Development in Contemporary Society *Units: 3*
- HDEV 300 - Introduction to Human Development for Human Development Majors *Units: 1*
- HDEV 301 - Theories of Human Development *Units: 4*
- HDEV 302 - Research Methods in Human Development *Units: 4*
- HDEV 311 - Infant and Child Development *Units: 4*
- HDEV 312 - Adolescence and Emerging Adulthood *Units: 4*
- HDEV 321 - Gender, Race & Class in Human Development *Units: 4*
- HDEV 322 - Adult Development and Aging *Units: 4*
- HDEV 380 - Lifespan Human Development *Units: 3 ; G.E./G.R. Area: D4*
- HDEV 381 - Interdisciplinary Perspectives on Lifespan Human Development *Units: 3*
- HDEV 398 - Internship *Units: 1-3*
- HDEV 400 - Futures and Careers for Human Development Majors *Units: 1*
- HDEV 401 - Applying Theories and Methods in Human Development *Units: 4*
- HDEV 411 - Early Childhood Cognitive Development: Theory and Research *Units: 4*
- HDEV 412 - Early Childhood Social Development: Theory & Research *Units: 4*
- HDEV 413 - Children in Families and Communities *Units: 4*
- HDEV 414 - Creative and Artistic Development in Early Childhood *Units: 4*
- HDEV 419 - Contemporary Research Topics in Early Childhood *Units: 4*
- HDEV 421 - Child Cognitive Development: Theory and Research *Units: 4*
- HDEV 422 - Social Development of Children: Theory and Research *Units: 4*
- HDEV 423 - Child Language Development *Units: 4*
- HDEV 424 - Global Perspectives on Childhood *Units: 4*
- HDEV 429 - Contemporary Topics on Children and Youth *Units: 4*
- HDEV 431 - Prevention and Intervention in Adolescent Development *Units: 4*
- HDEV 432 - Social Dimensions of Conflict in Adolescent and Adult Development *Units: 4*
- HDEV 433 - Technologies, Media, and Adolescence *Units: 4*
- HDEV 439 - Contemporary Research Topics in Adolescent Development *Units: 4*
- HDEV 441 - Human Development and Work *Units: 4*
- HDEV 442 - Health and Aging *Units: 4*
- HDEV 449 - Contemporary Research Topics in Adulthood and Aging *Units: 4*
- HDEV 451 - Midlife Transitions *Units: 4*
- HDEV 452 - Intimate Relationships Across the Lifespan *Units: 4*
- HDEV 453 - Sexual Orientations in Human Development *Units: 4*
- HDEV 459 - Contemporary Research Topics in Women's Development *Units: 4*
- HDEV 490 - Independent Study *Units: 1-4*
- HDEV 497 - Issues in Human Development *Units: 3*
- HDEV 499 - Senior Research Seminar *Units: 4*

Women's Studies

- • WOST 101 - Perspectives on Women *Units: 3*
- • WOST 102 - Introduction to Feminist, Gender, and Sexuality Studies *Units: 3 ; G.E./G.R. Area: Diversity*
- • WOST 301 - Women and Work *Units: 3 ; G.E./G.R. Area: Diversity*
- • WOST 302 - Women and Families *Units: 3 ; G.E./G.R. Area: Diversity*
- • WOST 303 - Violence Against Women *Units: 3 ; G.E./G.R. Area: Diversity*
- • WOST 401 - Feminist Theory *Units: 4 ; G.E./G.R. Area: Diversity*
- • WOST 402 - Women's Bodies and Health *Units: 3 ; G.E./G.R. Area: Diversity*
- • WOST 403 - Comparative Perspectives on Global Feminism *Units: 3 ; G.E./G.R. Area: Social Justice*
- • WOST 490 - Independent Study *Units: 1-4*
- • WOST 497 - Issues in Women's Studies *Units: 3*

Human Development, B.A.: Early Childhood Development Concentration (Available Online)

Human Development, B.A. Program (120 units)

Program Description

Human Development is an interdisciplinary program that integrates theory and methodology from disciplines such as anthropology, biology, linguistics, psychology, and sociology. The program explores the processes and mechanisms underlying developmental change and stability across the lifespan and the socio-cultural and historical contexts in which development takes place.

The Program's curriculum aims to develop in students a basic understanding of major research findings and core concepts in human development, the ability to analyze and evaluate theoretical and practical issues in the field, and the skills to apply learning to diverse communities outside the University. The Program strives to create an optimal learning community that values and fosters collaborative learning and dialogue between and among students and faculty from diverse backgrounds.

Program Learning Outcomes

Students graduating with a B.A. in Human Development from California State University, East Bay will be able to:

1. Demonstrate core knowledge in biological, psychological, and socio-cultural aspects of human development.
2. Model critical thinking ability by summarizing, comparing, synthesizing, and critiquing interdisciplinary human development perspectives.
3. Assess information; design and conduct individual and/or group research projects, and present them clearly, logically, and persuasively.
4. Identify and evaluate problems by applying human development knowledge in diverse contexts; and
5. Infer the ability to understand themselves reflectively and others empathetically.

Career Opportunities

The interdisciplinary approach of the Human Development Program provides students with excellent preparation for graduate study in a wide range of disciplines, including anthropology, education, social

work, sociology, medicine, public administration, law, criminal justice, psychology, and counseling. It also prepares students to work with people of all age groups from diverse racial, cultural, ethnic, socioeconomic, religious backgrounds, and sexual orientations. Students majoring in Human Development find a variety of career options in areas such as:

Education • Social work • Health care • Counseling • Law and law enforcement • Human resource and organizational work in community or corporate settings

Features

- Human Development faculty members come from a wide range of academic disciplines, including anthropology, biology, human development, linguistics, neuropsychology, psychology, and sociology.
- Students select one of five Concentrations: Early Childhood Development, Childhood Development, Adolescent Development, Adult Development and Gerontology, or Women's Development.
- Minor in Human Development and Minor in Women's Studies (please see Women's Studies Minor) are also offered.
- As part of its commitment to educational access, the Program incorporates a broad range of educational formats, including online classes, hybrid classes that combine an online component with face-to-face interaction, and face-to-face lecture/discussion and seminar classes.
- The program also offers its major through P.A.C.E. (Program for Accelerated College Education). Please contact the P.A.C.E. office for further information.

Degree Requirements Unit-Outline

- A baccalaureate of arts degree requires a total of 120 units:
 - The major requirements consists of 53-55 units;
 - General Education (GE) & Graduation Requirements (GR) consists of 57 units;
 - Free Electives may consist of 8-10 units (*actual number of free elective units may depend on GE/GR units*).

Note: It may be possible to double-count units within the graduation requirements or that a course may satisfy both a graduation requirement and a major requirement. Students should contact their program and AACE advisors for information.

Human Development Major Requirements (53-55 units)

Lower Division Core

Select three (3) courses for 9 units from the following categories, with no more than one course from each category (each course must be a minimum of 3-units each):

1. Anthropology (cultural or social)
2. Psychology
3. Sociology
4. Human or child development
5. Ethnic or area studies
6. Human biology or physical anthropology
7. Additional categories (e.g., statistics, gerontology, developmental disabilities) may be approved by the department

Upper Division Core

The following 30 units of coursework are required:

- HDEV 300 - Introduction to Human Development for Human Development Majors *Units: 1*
- HDEV 301 - Theories of Human Development *Units: 4*
- HDEV 302 - Research Methods in Human Development *Units: 4*
- HDEV 311 - Infant and Child Development *Units: 4*
- HDEV 312 - Adolescence and Emerging Adulthood *Units: 4*
- HDEV 321 - Gender, Race & Class in Human Development *Units: 4*
- HDEV 322 - Adult Development and Aging *Units: 4*
- HDEV 400 - Futures and Careers for Human Development Majors *Units: 1*
- HDEV 401 - Applying Theories and Methods in Human Development *Units: 4*

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Concentration Requirement

Students must select one (1) of the following concentrations listed below for 10-12 units to complete the major:

- Human Development, B.A.: Adolescent Development Concentration
- Human Development, B.A.: Adult Development and Gerontology Concentration (Available Online)
- Human Development, B.A.: Childhood Development Concentration
- Human Development, B.A.: Early Childhood Development Concentration (Available Online)
- Human Development, B.A.: Women's Development Concentration (Available Online)

Senior Capstone Requirement

The following 4-unit course is required as the senior capstone:

- HDEV 499 - Senior Research Seminar *Units: 4*

Early Childhood Development Concentration

Select any three (3) courses for 12 units from the following:

*Note: *Students intending to obtain CTC's Child Development Permits must select HDEV 413 and HDEV 414 as they are required by California CTC for the Child Development Permit.*

- HDEV 411 - Early Childhood Cognitive Development: Theory and Research *Units: 4*
- HDEV 412 - Early Childhood Social Development: Theory & Research *Units: 4*
- HDEV 413 - Children in Families and Communities *Units: 4 (*)*
- HDEV 414 - Creative and Artistic Development in Early Childhood *Units: 4 (*)*

- HDEV 419 - Contemporary Research Topics in Early Childhood *Units: 4*
- HDEV 423 - Child Language Development *Units: 4*

Other Undergraduate Degree Requirements

In addition to major requirements, every student must also complete the University's baccalaureate requirements for graduation, which are described in the Requirements, Exams & Testing chapter of this catalog.

Department Courses Listed by Course Type

Human Development and Women's Studies Courses

Department of Human Development and Women's Studies

Go to information for this department.

Courses

Human Development

- HDEV 200 - Human Development in Contemporary Society *Units: 3*
- HDEV 300 - Introduction to Human Development for Human Development Majors *Units: 1*
- HDEV 301 - Theories of Human Development *Units: 4*
- HDEV 302 - Research Methods in Human Development *Units: 4*
- HDEV 311 - Infant and Child Development *Units: 4*
- HDEV 312 - Adolescence and Emerging Adulthood *Units: 4*
- HDEV 321 - Gender, Race & Class in Human Development *Units: 4*
- HDEV 322 - Adult Development and Aging *Units: 4*
- HDEV 380 - Lifespan Human Development *Units: 3 ; G.E./G.R. Area: D4*
- HDEV 381 - Interdisciplinary Perspectives on Lifespan Human Development *Units: 3*
- HDEV 398 - Internship *Units: 1-3*
- HDEV 400 - Futures and Careers for Human Development Majors *Units: 1*
- HDEV 401 - Applying Theories and Methods in Human Development *Units: 4*
- HDEV 411 - Early Childhood Cognitive Development: Theory and Research *Units: 4*
- HDEV 412 - Early Childhood Social Development: Theory & Research *Units: 4*
- HDEV 413 - Children in Families and Communities *Units: 4*
- HDEV 414 - Creative and Artistic Development in Early Childhood *Units: 4*
- HDEV 419 - Contemporary Research Topics in Early Childhood *Units: 4*
- HDEV 421 - Child Cognitive Development: Theory and Research *Units: 4*
- HDEV 422 - Social Development of Children: Theory and Research *Units: 4*
- HDEV 423 - Child Language Development *Units: 4*
- HDEV 424 - Global Perspectives on Childhood *Units: 4*
- HDEV 429 - Contemporary Topics on Children and Youth *Units: 4*
- HDEV 431 - Prevention and Intervention in Adolescent Development *Units: 4*
- HDEV 432 - Social Dimensions of Conflict in Adolescent and Adult Development *Units: 4*
- HDEV 433 - Technologies, Media, and Adolescence *Units: 4*
- HDEV 439 - Contemporary Research Topics in Adolescent Development *Units: 4*
- HDEV 441 - Human Development and Work *Units: 4*

- HDEV 442 - Health and Aging *Units: 4*
- HDEV 449 - Contemporary Research Topics in Adulthood and Aging *Units: 4*
- HDEV 451 - Midlife Transitions *Units: 4*
- HDEV 452 - Intimate Relationships Across the Lifespan *Units: 4*
- HDEV 453 - Sexual Orientations in Human Development *Units: 4*
- HDEV 459 - Contemporary Research Topics in Women's Development *Units: 4*
- HDEV 490 - Independent Study *Units: 1-4*
- HDEV 497 - Issues in Human Development *Units: 3*
- HDEV 499 - Senior Research Seminar *Units: 4*

Women's Studies

- WOST 101 - Perspectives on Women *Units: 3*
- WOST 102 - Introduction to Feminist, Gender, and Sexuality Studies *Units: 3 ; G.E./G.R. Area:*

Diversity

- WOST 301 - Women and Work *Units: 3 ; G.E./G.R. Area: Diversity*
- WOST 302 - Women and Families *Units: 3 ; G.E./G.R. Area: Diversity*
- WOST 303 - Violence Against Women *Units: 3 ; G.E./G.R. Area: Diversity*
- WOST 401 - Feminist Theory *Units: 4 ; G.E./G.R. Area: Diversity*
- WOST 402 - Women's Bodies and Health *Units: 3 ; G.E./G.R. Area: Diversity*
- WOST 403 - Comparative Perspectives on Global Feminism *Units: 3 ; G.E./G.R. Area: Social*

Justice

- WOST 490 - Independent Study *Units: 1-4*
- WOST 497 - Issues in Women's Studies *Units: 3*

Human Development, B.A.: Women's Development Concentration (Available Online)

Human Development, B.A. Program (120 units)

Program Description

Human Development is an interdisciplinary program that integrates theory and methodology from disciplines such as anthropology, biology, linguistics, psychology, and sociology. The program explores the processes and mechanisms underlying developmental change and stability across the lifespan and the socio-cultural and historical contexts in which development takes place.

The Program's curriculum aims to develop in students a basic understanding of major research findings and core concepts in human development, the ability to analyze and evaluate theoretical and practical issues in the field, and the skills to apply learning to diverse communities outside the University. The Program strives to create an optimal learning community that values and fosters collaborative learning and dialogue between and among students and faculty from diverse backgrounds.

Program Learning Outcomes

Students graduating with a B.A. in Human Development from California State University, East Bay will be able to:

1. Demonstrate core knowledge in biological, psychological, and socio-cultural aspects of human development.

2. Model critical thinking ability by summarizing, comparing, synthesizing, and critiquing interdisciplinary human development perspectives.
3. Assess information; design and conduct individual and/or group research projects, and present them clearly, logically, and persuasively.
4. Identify and evaluate problems by applying human development knowledge in diverse contexts; and
5. Infer the ability to understand themselves reflectively and others empathetically.

Career Opportunities

The interdisciplinary approach of the Human Development Program provides students with excellent preparation for graduate study in a wide range of disciplines, including anthropology, education, social work, sociology, medicine, public administration, law, criminal justice, psychology, and counseling. It also prepares students to work with people of all age groups from diverse racial, cultural, ethnic, socioeconomic, religious backgrounds, and sexual orientations. Students majoring in Human Development find a variety of career options in areas such as:

Education • Social work • Health care • Counseling • Law and law enforcement • Human resource and organizational work in community or corporate settings

Features

- Human Development faculty members come from a wide range of academic disciplines, including anthropology, biology, human development, linguistics, neuropsychology, psychology, and sociology.
- Students select one of five Concentrations: Early Childhood Development, Childhood Development, Adolescent Development, Adult Development and Gerontology, or Women's Development.
- Minor in Human Development and Minor in Women's Studies (please see Women's Studies Minor) are also offered.
- As part of its commitment to educational access, the Program incorporates a broad range of educational formats, including online classes, hybrid classes that combine an online component with face-to-face interaction, and face-to-face lecture/discussion and seminar classes.
- The program also offers its major through P.A.C.E. (Program for Accelerated College Education). Please contact the P.A.C.E. office for further information.

Degree Requirements Unit-Outline

- A baccalaureate of arts degree requires a total of 120 units:
 - The major requirements consists of 53-55 units;
 - General Education (GE) & Graduation Requirements (GR) consists of 57 units;
 - Free Electives may consist of 8-10 units (*actual number of free elective units may depend on GE/GR units*).

Note: It may be possible to double-count units within the graduation requirements or that a course may satisfy both a graduation requirement and a major requirement. Students should contact their program and AACE advisors for information.

Human Development Major Requirements (53-55 units)

Lower Division Core

Select three (3) courses for 9 units from the following categories, with no more than one course from each category (each course must be a minimum of 3-units each):

1. Anthropology (cultural or social)
2. Psychology
3. Sociology
4. Human or child development
5. Ethnic or area studies
6. Human biology or physical anthropology
7. Additional categories (e.g., statistics, gerontology, developmental disabilities) may be approved by the department

Upper Division Core

The following 30 units of coursework are required:

- HDEV 300 - Introduction to Human Development for Human Development Majors *Units: 1*
- HDEV 301 - Theories of Human Development *Units: 4*
- HDEV 302 - Research Methods in Human Development *Units: 4*
- HDEV 311 - Infant and Child Development *Units: 4*
- HDEV 312 - Adolescence and Emerging Adulthood *Units: 4*
- HDEV 321 - Gender, Race & Class in Human Development *Units: 4*
- HDEV 322 - Adult Development and Aging *Units: 4*
- HDEV 400 - Futures and Careers for Human Development Majors *Units: 1*
- HDEV 401 - Applying Theories and Methods in Human Development *Units: 4*

Concentration Requirement

Students must select one (1) of the following concentrations listed below for 10-12 units to complete the major:

- Human Development, B.A.: Adolescent Development Concentration
- Human Development, B.A.: Adult Development and Gerontology Concentration (Available Online)
- Human Development, B.A.: Childhood Development Concentration
- Human Development, B.A.: Early Childhood Development Concentration (Available Online)
- Human Development, B.A.: Women's Development Concentration (Available Online)

Senior Capstone Requirement

The following 4-unit course is required as the senior capstone:

- HDEV 499 - Senior Research Seminar *Units: 4*

Women's Development Concentration

The following course is required for 4 units:

- **WOST 401 - Feminist Theory** *Units: 4 ; G.E./G.R. Area: Diversity*
Plus select any two (2) courses for 6-8 units from the following:
- **HDEV 452 - Intimate Relationships Across the Lifespan** *Units: 4*
- **HDEV 453 - Sexual Orientations in Human Development** *Units: 4*
- **HDEV 451 - Midlife Transitions** *Units: 4*
- **HDEV 459 - Contemporary Research Topics in Women's Development**
Units: 4
- **WOST 301 - Women and Work** *Units: 3 ; G.E./G.R. Area: Diversity*
- **WOST 302 - Women and Families** *Units: 3 ; G.E./G.R. Area: Diversity*
- **WOST 402 - Women's Bodies and Health** *Units: 3 ; G.E./G.R. Area: Diversity*

Other Undergraduate Degree Requirements

In addition to major requirements, every student must also complete the University's baccalaureate requirements for graduation, which are described in the Requirements, Exams & Testing chapter of this catalog.

Department Courses Listed by Course Type

Human Development and Women's Studies Courses

Department of Human Development and Women's Studies

Go to information for this department.

Courses

Human Development

- **HDEV 200 - Human Development in Contemporary Society** *Units: 3*
- **HDEV 300 - Introduction to Human Development for Human Development Majors** *Units: 1*
- **HDEV 301 - Theories of Human Development** *Units: 4*
- **HDEV 302 - Research Methods in Human Development** *Units: 4*
- **HDEV 311 - Infant and Child Development** *Units: 4*
- **HDEV 312 - Adolescence and Emerging Adulthood** *Units: 4*
- **HDEV 321 - Gender, Race & Class in Human Development** *Units: 4*
- **HDEV 322 - Adult Development and Aging** *Units: 4*
- **HDEV 380 - Lifespan Human Development** *Units: 3 ; G.E./G.R. Area: D4*
- **HDEV 381 - Interdisciplinary Perspectives on Lifespan Human Development** *Units: 3*
- **HDEV 398 - Internship** *Units: 1-3*
- **HDEV 400 - Futures and Careers for Human Development Majors** *Units: 1*
- **HDEV 401 - Applying Theories and Methods in Human Development** *Units: 4*
- **HDEV 411 - Early Childhood Cognitive Development: Theory and Research** *Units: 4*

- HDEV 412 - Early Childhood Social Development: Theory & Research *Units: 4*
- HDEV 413 - Children in Families and Communities *Units: 4*
- HDEV 414 - Creative and Artistic Development in Early Childhood *Units: 4*
- HDEV 419 - Contemporary Research Topics in Early Childhood *Units: 4*
- HDEV 421 - Child Cognitive Development: Theory and Research *Units: 4*
- HDEV 422 - Social Development of Children: Theory and Research *Units: 4*
- HDEV 423 - Child Language Development *Units: 4*
- HDEV 424 - Global Perspectives on Childhood *Units: 4*
- HDEV 429 - Contemporary Topics on Children and Youth *Units: 4*
- HDEV 431 - Prevention and Intervention in Adolescent Development *Units: 4*
- HDEV 432 - Social Dimensions of Conflict in Adolescent and Adult Development *Units: 4*
- HDEV 433 - Technologies, Media, and Adolescence *Units: 4*
- HDEV 439 - Contemporary Research Topics in Adolescent Development *Units: 4*
- HDEV 441 - Human Development and Work *Units: 4*
- HDEV 442 - Health and Aging *Units: 4*
- HDEV 449 - Contemporary Research Topics in Adulthood and Aging *Units: 4*
- HDEV 451 - Midlife Transitions *Units: 4*
- HDEV 452 - Intimate Relationships Across the Lifespan *Units: 4*
- HDEV 453 - Sexual Orientations in Human Development *Units: 4*
- HDEV 459 - Contemporary Research Topics in Women's Development *Units: 4*
- HDEV 490 - Independent Study *Units: 1-4*
- HDEV 497 - Issues in Human Development *Units: 3*
- HDEV 499 - Senior Research Seminar *Units: 4*

Women's Studies

- WOST 101 - Perspectives on Women *Units: 3*
- WOST 102 - Introduction to Feminist, Gender, and Sexuality Studies *Units: 3 ; G.E./G.R. Area:*

Diversity

- WOST 301 - Women and Work *Units: 3 ; G.E./G.R. Area: Diversity*
- WOST 302 - Women and Families *Units: 3 ; G.E./G.R. Area: Diversity*
- WOST 303 - Violence Against Women *Units: 3 ; G.E./G.R. Area: Diversity*
- WOST 401 - Feminist Theory *Units: 4 ; G.E./G.R. Area: Diversity*
- WOST 402 - Women's Bodies and Health *Units: 3 ; G.E./G.R. Area: Diversity*
- WOST 403 - Comparative Perspectives on Global Feminism *Units: 3 ; G.E./G.R. Area: Social*

Justice

- WOST 490 - Independent Study *Units: 1-4*
- WOST 497 - Issues in Women's Studies *Units: 3*

Minor

Human Development Minor

Minor Requirements (16 units)

Students must complete 16 units of HDEV coursework from HDEV 200 to 459, except HDEV 300 and HDEV 400.

Department Courses Listed by Course Type

Human Development and Women's Studies Courses

Department of Human Development and Women's Studies

Go to information for this department.

Courses

Human Development

- • HDEV 200 - Human Development in Contemporary Society *Units: 3*
- • HDEV 300 - Introduction to Human Development for Human Development Majors *Units: 1*
- • HDEV 301 - Theories of Human Development *Units: 4*
- • HDEV 302 - Research Methods in Human Development *Units: 4*
- • HDEV 311 - Infant and Child Development *Units: 4*
- • HDEV 312 - Adolescence and Emerging Adulthood *Units: 4*
- • HDEV 321 - Gender, Race & Class in Human Development *Units: 4*
- • HDEV 322 - Adult Development and Aging *Units: 4*
- • HDEV 380 - Lifespan Human Development *Units: 3 ; G.E./G.R. Area: D4*
- • HDEV 381 - Interdisciplinary Perspectives on Lifespan Human Development *Units: 3*
- • HDEV 398 - Internship *Units: 1-3*
- • HDEV 400 - Futures and Careers for Human Development Majors *Units: 1*
- • HDEV 401 - Applying Theories and Methods in Human Development *Units: 4*
- • HDEV 411 - Early Childhood Cognitive Development: Theory and Research *Units: 4*
- • HDEV 412 - Early Childhood Social Development: Theory & Research *Units: 4*
- • HDEV 413 - Children in Families and Communities *Units: 4*
- • HDEV 414 - Creative and Artistic Development in Early Childhood *Units: 4*
- • HDEV 419 - Contemporary Research Topics in Early Childhood *Units: 4*
- • HDEV 421 - Child Cognitive Development: Theory and Research *Units: 4*
- • HDEV 422 - Social Development of Children: Theory and Research *Units: 4*
- • HDEV 423 - Child Language Development *Units: 4*
- • HDEV 424 - Global Perspectives on Childhood *Units: 4*
- • HDEV 429 - Contemporary Topics on Children and Youth *Units: 4*
- • HDEV 431 - Prevention and Intervention in Adolescent Development *Units: 4*
- • HDEV 432 - Social Dimensions of Conflict in Adolescent and Adult Development *Units: 4*
- • HDEV 433 - Technologies, Media, and Adolescence *Units: 4*
- • HDEV 439 - Contemporary Research Topics in Adolescent Development *Units: 4*
- • HDEV 441 - Human Development and Work *Units: 4*
- • HDEV 442 - Health and Aging *Units: 4*
- • HDEV 449 - Contemporary Research Topics in Adulthood and Aging *Units: 4*
- • HDEV 451 - Midlife Transitions *Units: 4*
- • HDEV 452 - Intimate Relationships Across the Lifespan *Units: 4*
- • HDEV 453 - Sexual Orientations in Human Development *Units: 4*
- • HDEV 459 - Contemporary Research Topics in Women's Development *Units: 4*
- • HDEV 490 - Independent Study *Units: 1-4*
- • HDEV 497 - Issues in Human Development *Units: 3*
- • HDEV 499 - Senior Research Seminar *Units: 4*

Women's Studies

- • WOST 101 - Perspectives on Women *Units: 3*

- WOST 102 - Introduction to Feminist, Gender, and Sexuality Studies *Units: 3 ; G.E./G.R. Area: Diversity*
- WOST 301 - Women and Work *Units: 3 ; G.E./G.R. Area: Diversity*
- WOST 302 - Women and Families *Units: 3 ; G.E./G.R. Area: Diversity*
- WOST 303 - Violence Against Women *Units: 3 ; G.E./G.R. Area: Diversity*
- WOST 401 - Feminist Theory *Units: 4 ; G.E./G.R. Area: Diversity*
- WOST 402 - Women's Bodies and Health *Units: 3 ; G.E./G.R. Area: Diversity*
- WOST 403 - Comparative Perspectives on Global Feminism *Units: 3 ; G.E./G.R. Area: Social Justice*
- WOST 490 - Independent Study *Units: 1-4*
- WOST 497 - Issues in Women's Studies *Units: 3*

Women's Studies Minor

Minor Requirements (16 units)

The minor is designed for students who are interested in Women's Studies. Complete 16 units as outlined below:

Core Coursework

Take two (2) courses for 7 units as outlined:

Choose one (1) of the two courses for 3 units:

- WOST 101 - Perspectives on Women *Units: 3*
- OR WOST 102 - Introduction to Feminist, Gender, and Sexuality Studies *Units: 3 ; G.E./G.R. Area: Diversity*

Plus, take the following 4 units:

- WOST 401 - Feminist Theory *Units: 4 ; G.E./G.R. Area: Diversity*

Electives

Choose three (3) courses for 9 units from the following:

- WOST 301 - Women and Work *Units: 3 ; G.E./G.R. Area: Diversity*
- WOST 302 - Women and Families *Units: 3 ; G.E./G.R. Area: Diversity*
- WOST 303 - Violence Against Women *Units: 3 ; G.E./G.R. Area: Diversity*
- WOST 402 - Women's Bodies and Health *Units: 3 ; G.E./G.R. Area: Diversity*
- WOST 403 - Comparative Perspectives on Global Feminism *Units: 3 ; G.E./G.R. Area: Social Justice*

Department Courses Listed by Course Type

Human Development and Women's Studies Courses

Department of Human Development and Women's Studies

Go to information for this department.

Courses

Human Development

- HDEV 200 - Human Development in Contemporary Society *Units: 3*
- HDEV 300 - Introduction to Human Development for Human Development Majors *Units: 1*
- HDEV 301 - Theories of Human Development *Units: 4*
- HDEV 302 - Research Methods in Human Development *Units: 4*
- HDEV 311 - Infant and Child Development *Units: 4*
- HDEV 312 - Adolescence and Emerging Adulthood *Units: 4*
- HDEV 321 - Gender, Race & Class in Human Development *Units: 4*
- HDEV 322 - Adult Development and Aging *Units: 4*
- HDEV 380 - Lifespan Human Development *Units: 3 ; G.E./G.R. Area: D4*
- HDEV 381 - Interdisciplinary Perspectives on Lifespan Human Development *Units: 3*
- HDEV 398 - Internship *Units: 1-3*
- HDEV 400 - Futures and Careers for Human Development Majors *Units: 1*
- HDEV 401 - Applying Theories and Methods in Human Development *Units: 4*
- HDEV 411 - Early Childhood Cognitive Development: Theory and Research *Units: 4*
- HDEV 412 - Early Childhood Social Development: Theory & Research *Units: 4*
- HDEV 413 - Children in Families and Communities *Units: 4*
- HDEV 414 - Creative and Artistic Development in Early Childhood *Units: 4*
- HDEV 419 - Contemporary Research Topics in Early Childhood *Units: 4*
- HDEV 421 - Child Cognitive Development: Theory and Research *Units: 4*
- HDEV 422 - Social Development of Children: Theory and Research *Units: 4*
- HDEV 423 - Child Language Development *Units: 4*
- HDEV 424 - Global Perspectives on Childhood *Units: 4*
- HDEV 429 - Contemporary Topics on Children and Youth *Units: 4*
- HDEV 431 - Prevention and Intervention in Adolescent Development *Units: 4*
- HDEV 432 - Social Dimensions of Conflict in Adolescent and Adult Development *Units: 4*
- HDEV 433 - Technologies, Media, and Adolescence *Units: 4*
- HDEV 439 - Contemporary Research Topics in Adolescent Development *Units: 4*
- HDEV 441 - Human Development and Work *Units: 4*
- HDEV 442 - Health and Aging *Units: 4*
- HDEV 449 - Contemporary Research Topics in Adulthood and Aging *Units: 4*
- HDEV 451 - Midlife Transitions *Units: 4*
- HDEV 452 - Intimate Relationships Across the Lifespan *Units: 4*
- HDEV 453 - Sexual Orientations in Human Development *Units: 4*
- HDEV 459 - Contemporary Research Topics in Women's Development *Units: 4*
- HDEV 490 - Independent Study *Units: 1-4*
- HDEV 497 - Issues in Human Development *Units: 3*
- HDEV 499 - Senior Research Seminar *Units: 4*

Women's Studies

- WOST 101 - Perspectives on Women *Units: 3*
- WOST 102 - Introduction to Feminist, Gender, and Sexuality Studies *Units: 3 ; G.E./G.R. Area:*

Diversity

- WOST 301 - Women and Work *Units: 3 ; G.E./G.R. Area: Diversity*
- WOST 302 - Women and Families *Units: 3 ; G.E./G.R. Area: Diversity*
- WOST 303 - Violence Against Women *Units: 3 ; G.E./G.R. Area: Diversity*

- WOST 401 - Feminist Theory *Units: 4 ; G.E./G.R. Area: Diversity*
- WOST 402 - Women's Bodies and Health *Units: 3 ; G.E./G.R. Area: Diversity*
- WOST 403 - Comparative Perspectives on Global Feminism *Units: 3 ; G.E./G.R. Area: Social Justice*
- WOST 490 - Independent Study *Units: 1-4*
- WOST 497 - Issues in Women's Studies *Units: 3*

Certificate

Early Childhood Development Certificate

Program Description:

Completion of the Early Childhood Development Certificate Program enables students to complete the required Early Childhood Education or Child Development coursework for the first 3 levels of Child Development Permits (the Assistant Permit, the Associate Teacher Permit, and the Teacher Permit), as specified by the California CTC (Commission on Teacher Credentialing). These permits are required for teaching at early childhood care and education settings for children from birth to 5 years of age. The HDEV courses completed at CSUEB for the Certificate can be applied to the Human Development Major with Early Childhood Development Concentration.

Admission Requirements:

Upper Division standing at CSUEB

Certificate Requirements (15-16 or 24 units)

Teacher Permit Track

The Teacher Permit track requires 24 units:

Take the following 8 units:

- HDEV 413 - Children in Families and Communities *Units: 4*
- HDEV 414 - Creative and Artistic Development in Early Childhood *Units: 4*

Plus, choose 16 units from the following:

- HDEV 311 - Infant and Child Development *Units: 4*
- HDEV 411 - Early Childhood Cognitive Development: Theory and Research *Units: 4*
- HDEV 412 - Early Childhood Social Development: Theory & Research *Units: 4*
- HDEV 419 - Contemporary Research Topics in Early Childhood *Units: 4*
- HDEV 423 - Child Language Development *Units: 4*
- ECE, ECD, CHDEV, or equivalent course(s) from a community college (4 units)

Associate Teacher Permit Track

The Associate Teacher Permit track requires 15-16 units:

Take the following 8 units:

- HDEV 413 - Children in Families and Communities *Units: 4*
- HDEV 414 - Creative and Artistic Development in Early Childhood *Units: 4*

Plus, choose 7-8 units from the following:

- HDEV 311 - Infant and Child Development *Units: 4*
- HDEV 411 - Early Childhood Cognitive Development: Theory and Research *Units: 4*
- HDEV 412 - Early Childhood Social Development: Theory & Research *Units: 4*
- HDEV 419 - Contemporary Research Topics in Early Childhood *Units: 4*
- HDEV 423 - Child Language Development *Units: 4*
- ECE, ECD, CHDEV, or equivalent course(s) from a community college (3 units)

Department Courses Listed by Course Type

Human Development and Women's Studies Courses

Department of Human Development and Women's Studies

Go to information for this department.

Courses

Human Development

- HDEV 200 - Human Development in Contemporary Society *Units: 3*
- HDEV 300 - Introduction to Human Development for Human Development Majors *Units: 1*
- HDEV 301 - Theories of Human Development *Units: 4*
- HDEV 302 - Research Methods in Human Development *Units: 4*
- HDEV 311 - Infant and Child Development *Units: 4*
- HDEV 312 - Adolescence and Emerging Adulthood *Units: 4*
- HDEV 321 - Gender, Race & Class in Human Development *Units: 4*
- HDEV 322 - Adult Development and Aging *Units: 4*
- HDEV 380 - Lifespan Human Development *Units: 3 ; G.E./G.R. Area: D4*
- HDEV 381 - Interdisciplinary Perspectives on Lifespan Human Development *Units: 3*
- HDEV 398 - Internship *Units: 1-3*
- HDEV 400 - Futures and Careers for Human Development Majors *Units: 1*
- HDEV 401 - Applying Theories and Methods in Human Development *Units: 4*
- HDEV 411 - Early Childhood Cognitive Development: Theory and Research *Units: 4*
- HDEV 412 - Early Childhood Social Development: Theory & Research *Units: 4*
- HDEV 413 - Children in Families and Communities *Units: 4*
- HDEV 414 - Creative and Artistic Development in Early Childhood *Units: 4*
- HDEV 419 - Contemporary Research Topics in Early Childhood *Units: 4*
- HDEV 421 - Child Cognitive Development: Theory and Research *Units: 4*
- HDEV 422 - Social Development of Children: Theory and Research *Units: 4*

- HDEV 423 - Child Language Development *Units: 4*
- HDEV 424 - Global Perspectives on Childhood *Units: 4*
- HDEV 429 - Contemporary Topics on Children and Youth *Units: 4*
- HDEV 431 - Prevention and Intervention in Adolescent Development *Units: 4*
- HDEV 432 - Social Dimensions of Conflict in Adolescent and Adult Development *Units: 4*
- HDEV 433 - Technologies, Media, and Adolescence *Units: 4*
- HDEV 439 - Contemporary Research Topics in Adolescent Development *Units: 4*
- HDEV 441 - Human Development and Work *Units: 4*
- HDEV 442 - Health and Aging *Units: 4*
- HDEV 449 - Contemporary Research Topics in Adulthood and Aging *Units: 4*
- HDEV 451 - Midlife Transitions *Units: 4*
- HDEV 452 - Intimate Relationships Across the Lifespan *Units: 4*
- HDEV 453 - Sexual Orientations in Human Development *Units: 4*
- HDEV 459 - Contemporary Research Topics in Women's Development *Units: 4*
- HDEV 490 - Independent Study *Units: 1-4*
- HDEV 497 - Issues in Human Development *Units: 3*
- HDEV 499 - Senior Research Seminar *Units: 4*

Women's Studies

- WOST 101 - Perspectives on Women *Units: 3*
- WOST 102 - Introduction to Feminist, Gender, and Sexuality Studies *Units: 3 ; G.E./G.R. Area:*

Diversity

- WOST 301 - Women and Work *Units: 3 ; G.E./G.R. Area: Diversity*
- WOST 302 - Women and Families *Units: 3 ; G.E./G.R. Area: Diversity*
- WOST 303 - Violence Against Women *Units: 3 ; G.E./G.R. Area: Diversity*
- WOST 401 - Feminist Theory *Units: 4 ; G.E./G.R. Area: Diversity*
- WOST 402 - Women's Bodies and Health *Units: 3 ; G.E./G.R. Area: Diversity*
- WOST 403 - Comparative Perspectives on Global Feminism *Units: 3 ; G.E./G.R. Area: Social*

Justice

- WOST 490 - Independent Study *Units: 1-4*
- WOST 497 - Issues in Women's Studies *Units: 3*

Department of Kinesiology

The Department Office is located on the 1st Floor of the PE building, Room 130.

Open Hours: 8:00 am to 5:00 pm Monday through Friday.

Dept. Phone: (510) 885-3061

Faculty

Professor Emerita

Penny McCullagh, Ph.D. University of Wisconsin

Professors

Rebecca Beal, Ed.D. University of Northern Colorado

Paul Carpenter (Chair), Ph.D. University of California, Los Angeles

Rita M. Liberti, Ph.D. University of Iowa

Jeffery P. Simons, Ph.D. University of Illinois, Urbana-Champaign

Associate Professors

Matthew Atencio, Ph.D. University of Wollongong (Australia)

ZáNean D. McClain, Ph.D. Oregon State University

Catherine Inouye, Ed.D. University of Northern Colorado

My Phung (Jenny) O, Ph.D. University of Western Ontario (Canada)

Vanessa R. Yingling, Ph.D. University of Waterloo (Canada)

Assistant Professors

Bradford Bennett, Ph.D. Stanford University

Albert Mendoza, Ph.D. University of Massachusetts, Amherst

Jennifer Sherwood, Ph.D. Marquette University

Elizabeth (Missy) Wright, Ph.D. Michigan State University

Graduate Coordinator: Catherine Inouye

Mission Statement

Kinesiology is the discipline related to the scholarly study of sport, exercise and related activities from anatomical, biomechanical, developmental, physiological, psychological, sociological, philosophical and historical perspectives. Our mission is to prepare graduates who are knowledgeable, professional, and take a multidisciplinary approach to promoting physical activity.

About the Department

Use our university website link to learn more about what the Kinesiology Department has to offer.

- Center for Sport and Social Justice
- American Kinesiology Association
- Faculty
- Current News
- And more...

Bachelor

Kinesiology, B.S.

Kinesiology, B.S. Program (120 units)

Program Description

Kinesiology is the disciplinary study of physical activity and how it impacts individual and societal health and well-being. The discipline explores physical activity from a wide range of cognate disciplines, including, but not limited to, biomechanics, physiology, history, psychology, sociology, philosophy, and pedagogy. It involves areas of study that include sports performance, fitness leadership, sports medicine and related allied health professions, socio-cultural analysis of sport, sport and exercise psychology, physical education, and coaching.

The BS in Kinesiology degree prepares students for careers in the fitness and exercise and allied health professions. Our mission is to prepare graduates who are knowledgeable, professional, and take a multidisciplinary approach to promoting physical activity. The degree not only examines the theoretical underpinning of sport, exercise, fitness and health, but is committed to addressing the practical issues concerning coaching and instructing, exercise, fitness and sport. It also addresses prescription; programming and safety in promoting health and performance-related physical activity; and issues of social justice in and through sport. The diverse curriculum strives to be innovative and encourage creative thinking and practice.

Values

The Department is dedicated to providing a quality engaged educational experience that will prepare students for their chosen profession and beyond. Six key principles guide the department:

- Student-centered.
- Evidence-based practice.
- Comprehensive discipline-based and transferable skills and knowledge.
- Dedicated and committed faculty and staff.
- Relevant, interesting, and contemporary program of study.
- Commitment to professional service.

Objectives

- to provide a high quality learning experience which is relevant to personal and career aspirations and which will prepare students in the best way possible to gain employment or to continue with further study.
- to provide a scientific and multi-disciplinary approach to the study of sport, exercise, fitness, and health.
- to develop a framework of intellectual and conceptual skills aimed at broadening knowledge, understanding and critical appraisal of the scientific processes of the subject area.
- to encourage independent thinking, research awareness, investigation and analytical techniques to the study of kinesiology.

Career Opportunities

Activities Director • Allied Heath Fields (Physical Therapy, Occupational Therapy, Chiropractic) • Coach • Community College Teacher • Community Fitness • Agency Director • Exercise/Nutrition Counselor • Physical Education Teacher • University Instructor • Wellness Specialist

Features

The department has an array of facilities that support the kinesiology program, including laboratory space, extensive assessment equipment, and accessing a diverse range of physical activity spaces, including swimming pools, tennis courts, handball courts, a fitness center, a gymnasium (basketball, volleyball, badminton), and outdoor fields.

The department has a number of programs that support the student experience, such as the Kinesiology Research Group that provides opportunities for students to get hands-on research experience, the Center for Sport and Social Justice that offers workshops and community engagement around issues of social justice, and the Get Fit, Stay Fit program that is an in-house fitness program that provides students with hands-on experience working with clients on their fitness goals.

One scholarship is housed within the Department of Kinesiology. Recipients of the Joe Morgan Scholarship, named for the Hall of Fame baseball player who is a Cal State East Bay graduate, are identified each Spring with the award(s) applying to the subsequent year. The amount of the Joe Morgan award varies and multiple awards may be given.

Program Learning Outcomes

The program outcomes are aligned with the University's Institutional Learning Outcomes, the College of Education and Allied Studies Conceptual Framework, and the American Kinesiology Association's Learning Outcomes. At the completion of the program graduates will be able to do the following:

- Apply multiple disciplinary perspectives in developing foundational kinesiology knowledge and skills
- Explain the importance of a commitment to life-long physical activity
- Act professionally with a commitment to social justice for all sports participants
- Communicate using relevant and compelling kinesiology content
- Design, implement, and evaluate evidence-based kinesiological practices
- Critically evaluate situations, questions, and issues in kinesiology

Degree Requirements Unit-Outline

A baccalaureate of science degree requires a total of 120 units:

The major requirements consist of 65 units;

General Education (GE) & Graduation Requirements (GR) consists of 57 units;

Free Electives may consist of 0 units (*actual number of free elective units may depend on GE/GR units*).

Note: It may be possible to double-count units within the graduation requirements or that a course may satisfy both a graduation requirement and a major requirement. Students should contact their program and AACE advisors for information.

Pre-degree Preparation Recommendations

The Kinesiology degree has a strong science base. Students interested in pursuing a degree in Kinesiology should have a strong High School background in the Sciences as reflected in grades in Science classes (C or better) and having taken more than the minimal high school science requirements to graduate.

Kinesiology Major Requirements (65 units)

Lower Division Core

The following 14 units are required:

- BIOL 270 - Human Anatomy & Physiology I Units: 4 ; G.E./G.R. Area: B2, B3
 - BIOL 271 - Human Anatomy & Physiology II Units: 4
 - KIN 160 - Introduction to Kinesiology Units: 3 ; G.E./G.R. Area: D1-3
 - KIN 162 - Nutrition and Performance Units: 3 ; G.E./G.R. Area: B2
- OR
- KIN 270 - Women and Sport Units: 3 ; G.E./G.R. Area: D1-3; Diversity

Notes:

- KIN 162 is recommended for students with an interest in Exercise and Nutrition. KIN 270 is recommended for students with an interest in Sport and Social Justice.
- Completion of BIOL 270 and BIOL 271 with a grade of C- or better, junior standing, and declared as a Kinesiology major is required to be able to enroll in the Upper Division Core Classes. Transfer students ideally should complete these classes before transferring and have done so with a C- or better.
- For Freshman students, KIN 160 must be completed before attaining junior standing. For transfer students who have not taken KIN 160 before transferring it should be completed in the first semester on transferring.

Upper Division Core

The following 36 units are required:

- KIN 300 - Critical Inquiry in Kinesiology Units: 4
- KIN 301 - Applied Musculoskeletal Anatomy Units: 3
- KIN 302 - Social Justice in Kinesiology Units: 4
- KIN 303 - Biomechanics Units: 4
- KIN 304 - Motor Development Units: 3
- KIN 305 - Critical Issues of the Body Units: 4
- KIN 306 - Exercise Physiology Units: 4
- KIN 307 - Motor Skill Acquisition and Training Units: 3
- KIN 308 - Psychology of Physical Activity and Performance Units: 4
- KIN 498 - Internship Units: 1 - 3 *

Note: *Three (3) units of KIN 498 are required.

Elective Courses

Students must select a minimum of 15 units of electives. At least one elective must be selected from two of the three groups below. Students who are planning to pursue specific educational or career objectives in Kinesiology should consult an advisor to select appropriate electives, and may wish to take additional electives to meet graduate school requirements.

GROUP A

Select at least one (1) course:

- KIN 406 - Introduction to Adapted Physical Activity *Units: 3*
- KIN 409 - Spinal Biomechanics & Low Back Disorders *Units: 3*
- KIN 410 - Musculoskeletal Injuries in Work and Sport *Units: 3*
- KIN 420 - Exercise Prescription *Units: 3*
- KIN 421 - Clinical Exercise Physiology *Units: 3*
- KIN 422 - Exercise Nutrition *Units: 3*
- KIN 423 - Exercise and Stress *Units: 3*

GROUP B

Select at least one (1) course:

- KIN 310 - Bone Health and Exercise *Units: 3*
- KIN 372 - Teaching Fitness and Self Defense *Units: 1*
- KIN 375 - Concepts of Teaching Aquatics *Units: 1*
- KIN 404 - Elementary Physical Education Curriculum *Units: 3*
- KIN 424 - Exercise and Gerontology *Units: 3*
- KIN 447 - Motor Skill Expertise *Units: 3*
- KIN 448 - Mental Skills for Learning and Performance *Units: 3*

GROUP C

Select at least one (1) course:

- DANC 341 - Dance for Children *Units: 3 ; G.E./G.R. Area: C4*
- KIN 340 - Ergonomics *Units: 3*
- KIN 379 - Games Concepts I *Units: 2*
- KIN 380 - Games Concepts II *Units: 2*
- KIN 405 - Theories of Teaching Secondary Physical Education Curriculum
Units: 3
- KIN 470 - Sport in the Local Community *Units: 3*
- KIN 480 - Gender and Sexualities in Sport *Units: 3*
- KIN 489 - Sport, Racism, and Ethnicity *Units: 3 ; G.E./G.R. Area: D4; Social Justice*

Elective Substitutions

The following courses may be substituted for elective requirements with **approval of department chair**:

- KIN 490 - Independent Study *Units: 1 - 3 (Note: Please see Errata page for corrections to this course.)*
- KIN 493 - Project *Units: 1 - 3*
- KIN 495 - Practicum in Kinesiology *Units: 1 - 3*
- KIN 497 - Contemporary Issues in Kinesiology *Units: 3*

Other Undergraduate Degree Requirements

In addition to major requirements, every student must also complete the University's baccalaureate requirements for graduation, which are described in the Requirements, Exams & Testing chapter of this catalog.

Department Courses Listed by Course Type

Kinesiology Courses

Department of Kinesiology

Go to information for this department.

Courses

Kinesiology

- • KIN 100 - Beginning Activities: Badminton *Units: 1 ; G.E./G.R. Area: E*
- • KIN 101 - Beginning Activities: Basketball *Units: 1 ; G.E./G.R. Area: E*
- • KIN 107 - Beginning Activities: Swimming *Units: 1 ; G.E./G.R. Area: E*
- • KIN 109 - Beginning Activities: Volleyball *Units: 1 ; G.E./G.R. Area: E*
- • KIN 110 - Beginning Activities: Circuit Training *Units: 1 ; G.E./G.R. Area: E*
- • KIN 112 - Beginning Activities: Fitness Training *Units: 1 ; G.E./G.R. Area: E*
- • KIN 113 - Beginning Activities: Judo *Units: 1 ; G.E./G.R. Area: E*
- • KIN 114 - Beginning Activities: Weight Training *Units: 1 ; G.E./G.R. Area: E*
- • KIN 115 - Beginning Activities: Hapkido Self Defense *Units: 1 ; G.E./G.R. Area: E*
- • KIN 116 - Beginning Activities: Taekwondo Karate *Units: 1 ; G.E./G.R. Area: E*
- • KIN 117 - Beginning Activities: Soccer *Units: 1 ; G.E./G.R. Area: E*
- • KIN 118 - Beginning Activities: Self Defense - Women *Units: 1 ; G.E./G.R. Area: E*
- • KIN 119 - Beginning Activities: Brazilian Jiu Jitsu *Units: 1 ; G.E./G.R. Area: E*
- • KIN 121 - Beginning Activities: Golf *Units: 1 ; G.E./G.R. Area: E*
- • KIN 124 - Beginning Activities: Tennis *Units: 1 ; G.E./G.R. Area: E*
- • KIN 128 - Beginning Activities: Jogging *Units: 1 ; G.E./G.R. Area: E*
- • KIN 132 - Beginning Activities: Aerobic Fitness - Lap Swimming *Units: 1 ; G.E./G.R. Area: E*
- • KIN 133 - Beginning Activities: Relaxation *Units: 1 ; G.E./G.R. Area: E*
- • KIN 134 - Beginning Activities: Yoga *Units: 1 ; G.E./G.R. Area: E*
- • KIN 135 - Beginning Activities: Tai Chi *Units: 1 ; G.E./G.R. Area: E*
- • KIN 136 - Beginning Activities: Dance Fitness *Units: 1 ; G.E./G.R. Area: E*
- • KIN 138 - Beginning Activities: Aerobic Fitness - Kick Boxing *Units: 1 ; G.E./G.R. Area: E*
- • KIN 139 - Beginning Activities: Spin *Units: 1 ; G.E./G.R. Area: E*
- • KIN 140 - Beginning Activities: Water Aerobics *Units: 1 ; G.E./G.R. Area: E*
- • KIN 141 - Beginning Activities: Aerobic Condition *Units: 1 ; G.E./G.R. Area: E*
- • KIN 143 - Beginning Activities: Pilates *Units: 1 ; G.E./G.R. Area: E*
- • KIN 144 - Beginning Activities: Boot Camp Fitness *Units: 1 ; G.E./G.R. Area: E*
- • KIN 145 - Beginning Activities: Firm and Tone *Units: 1 ; G.E./G.R. Area: E*
- • KIN 147 - Beginning Activities: Indoor Soccer *Units: 1 ; G.E./G.R. Area: E*
- • KIN 148 - Beginning Activities: Soccer - Tennis *Units: 1 ; G.E./G.R. Area: E*
- • KIN 149 - Beginning Activities: Aerobic Walking *Units: 1 ; G.E./G.R. Area: E*

- • KIN 152 - Beginning Activities: Water Polo *Units: 1 ; G.E./G.R. Area: E*
- • KIN 154 - Beginning Activities: Flag Football *Units: 1 ; G.E./G.R. Area: E*
- • KIN 155 - Beginning Activities: Table Tennis *Units: 1 ; G.E./G.R. Area: E*
- • KIN 156 - Beginning Activities: Ultimate *Units: 1 ; G.E./G.R. Area: E*
- • KIN 160 - Introduction to Kinesiology *Units: 3 ; G.E./G.R. Area: D1-3*
- • KIN 162 - Nutrition and Performance *Units: 3 ; G.E./G.R. Area: B2*
- • KIN 200 - Intermediate Activities: Badminton *Units: 1 ; G.E./G.R. Area: E*
- • KIN 201 - Intermediate Activities: Basketball *Units: 1 ; G.E./G.R. Area: E*
- • KIN 207 - Intermediate Activities: Swimming *Units: 1 ; G.E./G.R. Area: E*
- • KIN 209 - Intermediate Activities: Volleyball *Units: 1 ; G.E./G.R. Area: E*
- • KIN 210 - Intermediate Activities: Weight Training *Units: 1 ; G.E./G.R. Area: E*
- • KIN 211 - Intermediate Activities: Circuit Training *Units: 1 ; G.E./G.R. Area: E*
- • KIN 212 - Intermediate Activities: Fitness Training *Units: 1 ; G.E./G.R. Area: E*
- • KIN 216 - Intermediate Activities: Taekwondo *Units: 1 ; G.E./G.R. Area: E*
- • KIN 217 - Intermediate Activities: Soccer *Units: 1 ; G.E./G.R. Area: E*
- • KIN 224 - Intermediate Activities: Tennis *Units: 1 ; G.E./G.R. Area: E*
- • KIN 234 - Intermediate Activities: Yoga *Units: 1 ; G.E./G.R. Area: E*
- • KIN 235 - Intermediate Activities: Tai Chi *Units: 1 ; G.E./G.R. Area: E*
- • KIN 238 - Intermediate Activities: Kick Boxing *Units: 1 ; G.E./G.R. Area: E*
- • KIN 240 - Intermediate Activities: Varied Activities *Units: 1 ; G.E./G.R. Area: E*
- • KIN 241 - Intermediate Activities: Aerobic Conditioning *Units: 1 ; G.E./G.R. Area: E*
- • KIN 242 - Intermediate Activities: Pilates *Units: 1 ; G.E./G.R. Area: E*
- • KIN 247 - Intermediate Activities: Indoor Soccer *Units: 1 ; G.E./G.R. Area: E*
- • KIN 251 - Advanced Activities: Basketball *Units: 1 ; G.E./G.R. Area: E*
- • KIN 252 - Advanced Activities: Weight Training *Units: 1 ; G.E./G.R. Area: E*
- • KIN 253 - Advanced Activities: Soccer *Units: 1 ; G.E./G.R. Area: E*
- • KIN 254 - Intermediate Activities: Flag Football *Units: 1 ; G.E./G.R. Area: E*
- • KIN 255 - Intermediate Activities: Table Tennis *Units: 1 ; G.E./G.R. Area: E*
- • KIN 258 - Advanced Activities: Yoga *Units: 1 ; G.E./G.R. Area: E*
- • KIN 261 - Competition Conditioning *Units: 2 ; G.E./G.R. Area: E*
- • KIN 265 - CPR and First Aid *Units: 2 ; G.E./G.R. Area: E*
- • KIN 270 - Women and Sport *Units: 3 ; G.E./G.R. Area: D1-3; Diversity*
- • KIN 300 - Critical Inquiry in Kinesiology *Units: 4*
- • KIN 301 - Applied Musculoskeletal Anatomy *Units: 3*
- • KIN 302 - Social Justice in Kinesiology *Units: 4*
- • KIN 303 - Biomechanics *Units: 4*
- • KIN 304 - Motor Development *Units: 3*
- • KIN 305 - Critical Issues of the Body *Units: 4*
- • KIN 306 - Exercise Physiology *Units: 4*
- • KIN 307 - Motor Skill Acquisition and Training *Units: 3*
- • KIN 308 - Psychology of Physical Activity and Performance *Units: 4*
- • KIN 310 - Bone Health and Exercise *Units: 3*
- • KIN 315 - Sport, Culture, and Power *Units: 3 ; G.E./G.R. Area: D4; Social Justice*
- • KIN 320 - Sport Film: Cultural Perspectives *Units: 3 ; G.E./G.R. Area: D4; Diversity*
- • KIN 321 - Elementary Classroom Teachers as Movement Educators *Units: 4*
- • KIN 340 - Ergonomics *Units: 3*
- • KIN 350 - Advanced Activities: Badminton *Units: 1*
- • KIN 354 - Advanced Activities: Taekwondo *Units: 1*
- • KIN 356 - Advanced Activities: Golf *Units: 1*
- • KIN 357 - Advanced Activities: Tennis *Units: 1*
- • KIN 360 - Aerobics Instructor Training *Units: 2*

- • KIN 362 - Advanced Activities: Indoor Soccer *Units: 1*
- • KIN 370 - US Twentieth Century Women's Sport *Units: 3 ; G.E./G.R. Area: C4; Diversity*
- • KIN 372 - Teaching Fitness and Self Defense *Units: 1*
- • KIN 375 - Concepts of Teaching Aquatics *Units: 1*
- • KIN 379 - Games Concepts I *Units: 2*
- • KIN 380 - Games Concepts II *Units: 2*
- • KIN 404 - Elementary Physical Education Curriculum *Units: 3*
- • KIN 405 - Theories of Teaching Secondary Physical Education Curriculum *Units: 3*
- • KIN 406 - Introduction to Adapted Physical Activity *Units: 3*
- • KIN 409 - Spinal Biomechanics & Low Back Disorders *Units: 3*
- • KIN 410 - Musculoskeletal Injuries in Work and Sport *Units: 3*
- • KIN 420 - Exercise Prescription *Units: 3*
- • KIN 421 - Clinical Exercise Physiology *Units: 3*
- • KIN 422 - Exercise Nutrition *Units: 3*
- • KIN 423 - Exercise and Stress *Units: 3*
- • KIN 424 - Exercise and Gerontology *Units: 3*
- • KIN 447 - Motor Skill Expertise *Units: 3*
- • KIN 448 - Mental Skills for Learning and Performance *Units: 3*
- • KIN 451 - Intercollegiate Athletics: Basketball *Units: 1*
- • KIN 453 - Intercollegiate Athletics: Baseball *Units: 1*
- • KIN 454 - Intercollegiate Athletics: Cross-Country *Units: 1*
- • KIN 455 - Intercollegiate Athletics: Outdoor Track *Units: 1*
- • KIN 458 - Intercollegiate Athletics: Golf *Units: 1*
- • KIN 461 - Exercise and Well-Being *Units: 3 ; G.E./G.R. Area: B6*
- • KIN 462 - Intercollegiate Athletics: Women's Basketball *Units: 1*
- • KIN 468 - Intercollegiate Athletics: Women's Volleyball *Units: 1*
- • KIN 469 - Intercollegiate Athletics: Soccer *Units: 1*
- • KIN 470 - Sport in the Local Community *Units: 3*
- • KIN 474 - Intercollegiate Athletics: Women's Softball *Units: 1*
- • KIN 477 - Intercollegiate Athletics: Women's Swimming *Units: 1*
- • KIN 478 - Intercollegiate Athletics: Women's Waterpolo *Units: 1*
- • KIN 480 - Gender and Sexualities in Sport *Units: 3*
- • KIN 483 - Intercollegiate Athletics: Women's Soccer *Units: 1*
- • KIN 489 - Sport, Racism, and Ethnicity *Units: 3 ; G.E./G.R. Area: D4; Social Justice*
- • KIN 490 - Independent Study *Units: 1 - 3*
- • KIN 493 - Project *Units: 1 - 3*
- • KIN 495 - Practicum in Kinesiology *Units: 1 - 3*
- • KIN 497 - Contemporary Issues in Kinesiology *Units: 3*
- • KIN 498 - Internship *Units: 1 - 3*

Kinesiology: Graduate

- • KIN 601 - Knowledge Construction in Kinesiology *Units: 4*
- • KIN 602 - Critical Perspectives on the Body *Units: 4*
- • KIN 603 - Psychomotor Aspects of Learning and Performance *Units: 4*
- • KIN 604 - Effective Movement Instruction *Units: 4*
- • KIN 605 - Physiological Basis of Exercise and Wellness *Units: 4*
- • KIN 606 - Current Trends in Kinesiology: Myth Busters *Units: 4*
- • KIN 607 - Assessment of Human Performance *Units: 4*
- • KIN 608 - Biomechanics of Musculoskeletal Injury *Units: 4*
- • KIN 609 - Synthesis in Kinesiology *Units: 4*
- • KIN 685 - Supervised Research *Units: 1-4*

- KIN 690 - Independent Study *Units: 1-4*
- KIN 691 - University Thesis *Units: 4*
- KIN 692 - Comprehensive Exam Review *Units: 4*
- KIN 693 - Project *Units: 4*
- KIN 697 - Contemporary Issues in Kinesiology *Units: 4*
- KIN 698 - Internship *Units: 1-4*

Master

Kinesiology, M.S.

Kinesiology, M.S. Program

Program Description

The Department of Kinesiology offers programs focusing on fundamental analysis of sport, exercise and physical activity phenomena. The purpose of the Master of Science degree program is to give students a cross-disciplinary knowledge of kinesiology, develop their scholarly skills, and hone their professional application. The program serves as a terminal degree for professionals as well as preparation for those intending to complete a doctorate in Kinesiology or in one of the Allied Health Professions. Because most students are working professionals, graduate courses are offered during the evening hours.

Program Learning Outcomes

Students who graduate with an M.S. in Kinesiology will be able to:

- Synthesize and apply multiple cognate disciplinary perspectives.
- Design and implement collaborative innovative professional applications.
- Make decisions using critical analysis of issues, theories, methods, ideas, and artifacts.
- Communicate persuasively using a contextually-grounded approach.
- Systematically reflect on the practice of social justice.

Career Opportunities

Athletic Director • Cardiopulmonary Rehabilitation Specialist • Community College Teacher • Corporate Fitness Director • Intercollegiate and Interscholastic Coach • Exercise Physiologist • Personal Trainer • Physical Education Administrator • Physical Education Teacher • Sport Psychology Consultant • University Instructor • Wellness Counselor/Educator

Features

Upon acceptance into the program, students are immediately directed to a faculty member who will assist them in developing a course of study.

The department offers a complete range of laboratory facilities and technologies for graduate students. These resources enable comprehensive research opportunities in all areas of study. Motion analysis software, ventilatory gas analysis, biofeedback, coincidence timing, nutritional analysis, bone scanner, body composition analysis and computer statistical packages are examples of available tools.

Other features include the potential for individualized programs of study to meet specific interests and needs, extensive library resources, and an instructional format which stimulates high interaction among students and promotes independent scholarship.

Admission to the Program in "Classified Graduate" Status

Eligibility for admission to the M.S. degree program in "Classified Graduate" status requires a student to have a baccalaureate degree with a major approximately equivalent to the Cal State East Bay B.S. degree in kinesiology. The graduate coordinator or department chair will determine degree equivalencies. Students must also have attained at least a 3.00 grade point average in the major and have satisfied the University Writing Skills requirement.

The department encourages students to meet university prescribed deadlines for admission into the program beginning in the fall semester, although the department is willing to accept graduate students into the program during spring semester.

"Conditionally Classified Graduate" Status

Students who are judged to be admissible, but who do not meet all of the admission requirements specified above for "Classified Graduate" status, receive "Conditionally Classified Graduate" standing. Such students may need to complete certain undergraduate prerequisites in preparation for graduate study and/or may have other deficiencies, such as the University Writing Skills requirement, that must be resolved within the first semester of enrollment. Each student will be judged on an individual basis. The department may require the Graduate Record Examination (GRE), Aptitude Test Score, three letters of recommendation from former professors, written essay, and/or the repeat of undergraduate coursework in the case of below-standard grade point averages.

Generally, courses taken to resolve deficiencies will not count for credit in the M.S. program. In no case will more than 12 semester units taken in "Unclassified Post-baccalaureate" standing or at another university be counted toward the M.S. degree.

Advancement to Candidacy

"Classified Graduate" students are eligible for Advancement to Candidacy based on the criteria given below.

1. Maintain a 3.00 grade point average in all graduate work completed.
2. Submit to the graduate coordinator an approved program of study developed in conjunction with the appropriate faculty committee.
3. Have passed the Writing Skills requirement or equivalency.

Kinesiology Degree Requirements (32 units)

Prerequisites or Foundation Requirements

In the absence of an appropriate undergraduate degree, 25-26 units of prerequisite coursework must be completed. Generally, courses taken to resolve deficiencies will not count for credit in the M.S. program. Preparatory work for students with undergraduate degrees in other fields is described below.

Waiver of one or more of these area requirements will be considered if comparable coursework has been completed, or if the student has strong compensating academic strengths in areas related to the graduate program. *All requests for such waivers and their justification must be approved by academic advisor and submitted in writing to the graduate coordinator.*

Note: these courses must be completed upon the first attempt with a grade of "B" or higher in each course, prior to enrollment in any graduate class. Students attempting to meet these proficiencies at Cal State East Bay who do not receive a grade of "B" or higher on the first attempt are subject to declassification from the program and dismissal from the University.

The following two (2) courses (7 units) are required:

- KIN 300 - Critical Inquiry in Kinesiology Units: 4
- KIN 301 - Applied Musculoskeletal Anatomy Units: 3

Plus, two (2) courses (8 units) selected from the following courses:

- KIN 302 - Social Justice in Kinesiology Units: 4
- KIN 305 - Critical Issues of the Body Units: 4
- KIN 308 - Psychology of Physical Activity and Performance Units: 4

Plus, three (3) courses (units vary from 10-11 units) selected from the following courses:

- KIN 303 - Biomechanics Units: 4
- KIN 304 - Motor Development Units: 3
- KIN 306 - Exercise Physiology Units: 4
- KIN 307 - Motor Skill Acquisition and Training Units: 3

Core Courses

The 24 units of core coursework is required:

- KIN 601 - Knowledge Construction in Kinesiology Units: 4
- KIN 602 - Critical Perspectives on the Body Units: 4
- KIN 605 - Physiological Basis of Exercise and Wellness Units: 4
- KIN 606 - Current Trends in Kinesiology: Myth Busters Units: 4
- KIN 607 - Assessment of Human Performance Units: 4
- KIN 608 - Biomechanics of Musculoskeletal Injury Units: 4

Note: The following courses may substitute one (1) or more core courses with department permission. Course(s) must be taken for 4 units.

- KIN 685 - Supervised Research Units: 1-4
- KIN 690 - Independent Study Units: 1-4
- KIN 698 - Internship Units: 1-4

Elective Courses

Select one (1) course for 4 units from the following:

- KIN 603 - Psychomotor Aspects of Learning and Performance Units: 4
- KIN 604 - Effective Movement Instruction Units: 4
- KIN 697 - Contemporary Issues in Kinesiology Units: 4

Capstone Requirement

A capstone experience for 4 units is required:

- **KIN 693 - Project** *Units: 4 *Preferred Capstone*
An alternative capstone* may be substituted with department approval:
- **KIN 691 - University Thesis** *Units: 4 (*only upon department approval)*
- **KIN 692 - Comprehensive Exam Review** *Units: 4 (*only upon department approval)*

Other Graduate & Post-Baccalaureate Degree Requirements

In addition to departmental requirements, every student must also satisfy the University requirements for graduation as described throughout this catalog. These include the 70% unit residence requirement; the five-year rule on currency of subject matter; the minimum number of units in 600-level courses; the "C" minimum grade for each graduate course; the 3.00 cumulative grade point average; and the University Writing Skills Requirement.

Note: For information on meeting the University Writing Skills Requirement, see the Testing Office website at www.csueastbay.edu/testing or call (510) 885-3661.

Department Courses Listed by Course Type

Kinesiology Courses

Department of Kinesiology

Go to information for this department.

Courses

Kinesiology

- • KIN 100 - Beginning Activities: Badminton *Units: 1 ; G.E./G.R. Area: E*
- • KIN 101 - Beginning Activities: Basketball *Units: 1 ; G.E./G.R. Area: E*
- • KIN 107 - Beginning Activities: Swimming *Units: 1 ; G.E./G.R. Area: E*
- • KIN 109 - Beginning Activities: Volleyball *Units: 1 ; G.E./G.R. Area: E*
- • KIN 110 - Beginning Activities: Circuit Training *Units: 1 ; G.E./G.R. Area: E*
- • KIN 112 - Beginning Activities: Fitness Training *Units: 1 ; G.E./G.R. Area: E*
- • KIN 113 - Beginning Activities: Judo *Units: 1 ; G.E./G.R. Area: E*
- • KIN 114 - Beginning Activities: Weight Training *Units: 1 ; G.E./G.R. Area: E*
- • KIN 115 - Beginning Activities: Hapkido Self Defense *Units: 1 ; G.E./G.R. Area: E*
- • KIN 116 - Beginning Activities: Taekwondo Karate *Units: 1 ; G.E./G.R. Area: E*
- • KIN 117 - Beginning Activities: Soccer *Units: 1 ; G.E./G.R. Area: E*
- • KIN 118 - Beginning Activities: Self Defense - Women *Units: 1 ; G.E./G.R. Area: E*
- • KIN 119 - Beginning Activities: Brazilian Jiu Jitsu *Units: 1 ; G.E./G.R. Area: E*
- • KIN 121 - Beginning Activities: Golf *Units: 1 ; G.E./G.R. Area: E*
- • KIN 124 - Beginning Activities: Tennis *Units: 1 ; G.E./G.R. Area: E*
- • KIN 128 - Beginning Activities: Jogging *Units: 1 ; G.E./G.R. Area: E*
- • KIN 132 - Beginning Activities: Aerobic Fitness - Lap Swimming *Units: 1 ; G.E./G.R. Area: E*

- • KIN 133 - Beginning Activities: Relaxation *Units: 1 ; G.E./G.R. Area: E*
- • KIN 134 - Beginning Activities: Yoga *Units: 1 ; G.E./G.R. Area: E*
- • KIN 135 - Beginning Activities: Tai Chi *Units: 1 ; G.E./G.R. Area: E*
- • KIN 136 - Beginning Activities: Dance Fitness *Units: 1 ; G.E./G.R. Area: E*
- • KIN 138 - Beginning Activities: Aerobic Fitness - Kick Boxing *Units: 1 ; G.E./G.R. Area: E*
- • KIN 139 - Beginning Activities: Spin *Units: 1 ; G.E./G.R. Area: E*
- • KIN 140 - Beginning Activities: Water Aerobics *Units: 1 ; G.E./G.R. Area: E*
- • KIN 141 - Beginning Activities: Aerobic Condition *Units: 1 ; G.E./G.R. Area: E*
- • KIN 143 - Beginning Activities: Pilates *Units: 1 ; G.E./G.R. Area: E*
- • KIN 144 - Beginning Activities: Boot Camp Fitness *Units: 1 ; G.E./G.R. Area: E*
- • KIN 145 - Beginning Activities: Firm and Tone *Units: 1 ; G.E./G.R. Area: E*
- • KIN 147 - Beginning Activities: Indoor Soccer *Units: 1 ; G.E./G.R. Area: E*
- • KIN 148 - Beginning Activities: Soccer - Tennis *Units: 1 ; G.E./G.R. Area: E*
- • KIN 149 - Beginning Activities: Aerobic Walking *Units: 1 ; G.E./G.R. Area: E*
- • KIN 152 - Beginning Activities: Water Polo *Units: 1 ; G.E./G.R. Area: E*
- • KIN 154 - Beginning Activities: Flag Football *Units: 1 ; G.E./G.R. Area: E*
- • KIN 155 - Beginning Activities: Table Tennis *Units: 1 ; G.E./G.R. Area: E*
- • KIN 156 - Beginning Activities: Ultimate *Units: 1 ; G.E./G.R. Area: E*
- • KIN 160 - Introduction to Kinesiology *Units: 3 ; G.E./G.R. Area: D1-3*
- • KIN 162 - Nutrition and Performance *Units: 3 ; G.E./G.R. Area: B2*
- • KIN 200 - Intermediate Activities: Badminton *Units: 1 ; G.E./G.R. Area: E*
- • KIN 201 - Intermediate Activities: Basketball *Units: 1 ; G.E./G.R. Area: E*
- • KIN 207 - Intermediate Activities: Swimming *Units: 1 ; G.E./G.R. Area: E*
- • KIN 209 - Intermediate Activities: Volleyball *Units: 1 ; G.E./G.R. Area: E*
- • KIN 210 - Intermediate Activities: Weight Training *Units: 1 ; G.E./G.R. Area: E*
- • KIN 211 - Intermediate Activities: Circuit Training *Units: 1 ; G.E./G.R. Area: E*
- • KIN 212 - Intermediate Activities: Fitness Training *Units: 1 ; G.E./G.R. Area: E*
- • KIN 216 - Intermediate Activities: Taekwondo *Units: 1 ; G.E./G.R. Area: E*
- • KIN 217 - Intermediate Activities: Soccer *Units: 1 ; G.E./G.R. Area: E*
- • KIN 224 - Intermediate Activities: Tennis *Units: 1 ; G.E./G.R. Area: E*
- • KIN 234 - Intermediate Activities: Yoga *Units: 1 ; G.E./G.R. Area: E*
- • KIN 235 - Intermediate Activities: Tai Chi *Units: 1 ; G.E./G.R. Area: E*
- • KIN 238 - Intermediate Activities: Kick Boxing *Units: 1 ; G.E./G.R. Area: E*
- • KIN 240 - Intermediate Activities: Varied Activities *Units: 1 ; G.E./G.R. Area: E*
- • KIN 241 - Intermediate Activities: Aerobic Conditioning *Units: 1 ; G.E./G.R. Area: E*
- • KIN 242 - Intermediate Activities: Pilates *Units: 1 ; G.E./G.R. Area: E*
- • KIN 247 - Intermediate Activities: Indoor Soccer *Units: 1 ; G.E./G.R. Area: E*
- • KIN 251 - Advanced Activities: Basketball *Units: 1 ; G.E./G.R. Area: E*
- • KIN 252 - Advanced Activities: Weight Training *Units: 1 ; G.E./G.R. Area: E*
- • KIN 253 - Advanced Activities: Soccer *Units: 1 ; G.E./G.R. Area: E*
- • KIN 254 - Intermediate Activities: Flag Football *Units: 1 ; G.E./G.R. Area: E*
- • KIN 255 - Intermediate Activities: Table Tennis *Units: 1 ; G.E./G.R. Area: E*
- • KIN 258 - Advanced Activities: Yoga *Units: 1 ; G.E./G.R. Area: E*
- • KIN 261 - Competition Conditioning *Units: 2 ; G.E./G.R. Area: E*
- • KIN 265 - CPR and First Aid *Units: 2 ; G.E./G.R. Area: E*
- • KIN 270 - Women and Sport *Units: 3 ; G.E./G.R. Area: D1-3; Diversity*
- • KIN 300 - Critical Inquiry in Kinesiology *Units: 4*
- • KIN 301 - Applied Musculoskeletal Anatomy *Units: 3*
- • KIN 302 - Social Justice in Kinesiology *Units: 4*
- • KIN 303 - Biomechanics *Units: 4*
- • KIN 304 - Motor Development *Units: 3*

- • KIN 305 - Critical Issues of the Body *Units: 4*
- • KIN 306 - Exercise Physiology *Units: 4*
- • KIN 307 - Motor Skill Acquisition and Training *Units: 3*
- • KIN 308 - Psychology of Physical Activity and Performance *Units: 4*
- • KIN 310 - Bone Health and Exercise *Units: 3*
- • KIN 315 - Sport, Culture, and Power *Units: 3 ; G.E./G.R. Area: D4; Social Justice*
- • KIN 320 - Sport Film: Cultural Perspectives *Units: 3 ; G.E./G.R. Area: D4; Diversity*
- • KIN 321 - Elementary Classroom Teachers as Movement Educators *Units: 4*
- • KIN 340 - Ergonomics *Units: 3*
- • KIN 350 - Advanced Activities: Badminton *Units: 1*
- • KIN 354 - Advanced Activities: Taekwondo *Units: 1*
- • KIN 356 - Advanced Activities: Golf *Units: 1*
- • KIN 357 - Advanced Activities: Tennis *Units: 1*
- • KIN 360 - Aerobics Instructor Training *Units: 2*
- • KIN 362 - Advanced Activities: Indoor Soccer *Units: 1*
- • KIN 370 - US Twentieth Century Women's Sport *Units: 3 ; G.E./G.R. Area: C4; Diversity*
- • KIN 372 - Teaching Fitness and Self Defense *Units: 1*
- • KIN 375 - Concepts of Teaching Aquatics *Units: 1*
- • KIN 379 - Games Concepts I *Units: 2*
- • KIN 380 - Games Concepts II *Units: 2*
- • KIN 404 - Elementary Physical Education Curriculum *Units: 3*
- • KIN 405 - Theories of Teaching Secondary Physical Education Curriculum *Units: 3*
- • KIN 406 - Introduction to Adapted Physical Activity *Units: 3*
- • KIN 409 - Spinal Biomechanics & Low Back Disorders *Units: 3*
- • KIN 410 - Musculoskeletal Injuries in Work and Sport *Units: 3*
- • KIN 420 - Exercise Prescription *Units: 3*
- • KIN 421 - Clinical Exercise Physiology *Units: 3*
- • KIN 422 - Exercise Nutrition *Units: 3*
- • KIN 423 - Exercise and Stress *Units: 3*
- • KIN 424 - Exercise and Gerontology *Units: 3*
- • KIN 447 - Motor Skill Expertise *Units: 3*
- • KIN 448 - Mental Skills for Learning and Performance *Units: 3*
- • KIN 451 - Intercollegiate Athletics: Basketball *Units: 1*
- • KIN 453 - Intercollegiate Athletics: Baseball *Units: 1*
- • KIN 454 - Intercollegiate Athletics: Cross-Country *Units: 1*
- • KIN 455 - Intercollegiate Athletics: Outdoor Track *Units: 1*
- • KIN 458 - Intercollegiate Athletics: Golf *Units: 1*
- • KIN 461 - Exercise and Well-Being *Units: 3 ; G.E./G.R. Area: B6*
- • KIN 462 - Intercollegiate Athletics: Women's Basketball *Units: 1*
- • KIN 468 - Intercollegiate Athletics: Women's Volleyball *Units: 1*
- • KIN 469 - Intercollegiate Athletics: Soccer *Units: 1*
- • KIN 470 - Sport in the Local Community *Units: 3*
- • KIN 474 - Intercollegiate Athletics: Women's Softball *Units: 1*
- • KIN 477 - Intercollegiate Athletics: Women's Swimming *Units: 1*
- • KIN 478 - Intercollegiate Athletics: Women's Waterpolo *Units: 1*
- • KIN 480 - Gender and Sexualities in Sport *Units: 3*
- • KIN 483 - Intercollegiate Athletics: Women's Soccer *Units: 1*
- • KIN 489 - Sport, Racism, and Ethnicity *Units: 3 ; G.E./G.R. Area: D4; Social Justice*
- • KIN 490 - Independent Study *Units: 1 - 3*
- • KIN 493 - Project *Units: 1 - 3*
- • KIN 495 - Practicum in Kinesiology *Units: 1 - 3*

- KIN 497 - Contemporary Issues in Kinesiology *Units: 3*
- KIN 498 - Internship *Units: 1 - 3*

Kinesiology: Graduate

- KIN 601 - Knowledge Construction in Kinesiology *Units: 4*
- KIN 602 - Critical Perspectives on the Body *Units: 4*
- KIN 603 - Psychomotor Aspects of Learning and Performance *Units: 4*
- KIN 604 - Effective Movement Instruction *Units: 4*
- KIN 605 - Physiological Basis of Exercise and Wellness *Units: 4*
- KIN 606 - Current Trends in Kinesiology: Myth Busters *Units: 4*
- KIN 607 - Assessment of Human Performance *Units: 4*
- KIN 608 - Biomechanics of Musculoskeletal Injury *Units: 4*
- KIN 609 - Synthesis in Kinesiology *Units: 4*
- KIN 685 - Supervised Research *Units: 1-4*
- KIN 690 - Independent Study *Units: 1-4*
- KIN 691 - University Thesis *Units: 4*
- KIN 692 - Comprehensive Exam Review *Units: 4*
- KIN 693 - Project *Units: 4*
- KIN 697 - Contemporary Issues in Kinesiology *Units: 4*
- KIN 698 - Internship *Units: 1-4*

Single Subject Matter Preparation Program

Physical Education Single Subject Matter Preparation

It has long been evident that sport and exercise phenomena have significant social, political, economic and wellness implications in contemporary life. Kinesiology is the discipline related to the scholarly study of sport, exercise and related activities from anatomical, biomechanical, developmental, physiological, psychological, sociological, philosophical and historical perspectives. Such understanding is a necessary prerequisite to the preparation for sport and exercise related careers.

Physical education teacher education is a program housed in kinesiology and although credentialed teachers in the state of California are not required in public elementary schools, they are required in all public secondary schools. However, credentialed teachers in physical education are sought after in not only public schools (elementary and secondary), but also in some charter and private schools. This program strives to prepare students to be successful candidates as they seek out credential programs in order to teach physical education in the state of California.

In order to be eligible for the Physical Education Teacher Education California Subject Examination for Teachers (CSET) waiver, you must successfully complete 18 units in the Physical Education Teacher Education area AND all the degree requirements for the Kinesiology degree. These elective classes prepare students for teaching physical education in grades K-12 in public and private schools. The curriculum is designed to meet Standard Requirements set forth by the California Commission on Teacher Credentialing. All these classes must be passed with a C or better grade.

Note: Due to policy changes from the California Commission on Teacher Credentialing and the Federal No Child Left Behind mandate, the Physical Education Teacher Education curriculum is periodically reviewed and changed to meet current state and federal standards. Regularly consult a Kinesiology Advisor for details and the most current course requirements.

Physical Education Teacher Education CSET Requirements

Take the following 18 units:

- DANC 341 - Dance for Children *Units: 3 ; G.E./G.R. Area: C4*
- KIN 372 - Teaching Fitness and Self Defense *Units: 1*
- KIN 375 - Concepts of Teaching Aquatics *Units: 1*
- KIN 379 - Games Concepts I *Units: 2*
- KIN 380 - Games Concepts II *Units: 2*
- KIN 404 - Elementary Physical Education Curriculum *Units: 3*
- KIN 405 - Theories of Teaching Secondary Physical Education Curriculum *Units: 3*
- KIN 406 - Introduction to Adapted Physical Activity *Units: 3*

Department Courses Listed by Course Type

Kinesiology Courses

Department of Kinesiology

Go to information for this department.

Courses

Kinesiology

- KIN 100 - Beginning Activities: Badminton *Units: 1 ; G.E./G.R. Area: E*
- KIN 101 - Beginning Activities: Basketball *Units: 1 ; G.E./G.R. Area: E*
- KIN 107 - Beginning Activities: Swimming *Units: 1 ; G.E./G.R. Area: E*
- KIN 109 - Beginning Activities: Volleyball *Units: 1 ; G.E./G.R. Area: E*
- KIN 110 - Beginning Activities: Circuit Training *Units: 1 ; G.E./G.R. Area: E*
- KIN 112 - Beginning Activities: Fitness Training *Units: 1 ; G.E./G.R. Area: E*
- KIN 113 - Beginning Activities: Judo *Units: 1 ; G.E./G.R. Area: E*
- KIN 114 - Beginning Activities: Weight Training *Units: 1 ; G.E./G.R. Area: E*
- KIN 115 - Beginning Activities: Hapkido Self Defense *Units: 1 ; G.E./G.R. Area: E*
- KIN 116 - Beginning Activities: Taekwondo Karate *Units: 1 ; G.E./G.R. Area: E*
- KIN 117 - Beginning Activities: Soccer *Units: 1 ; G.E./G.R. Area: E*
- KIN 118 - Beginning Activities: Self Defense - Women *Units: 1 ; G.E./G.R. Area: E*
- KIN 119 - Beginning Activities: Brazilian Jiu Jitsu *Units: 1 ; G.E./G.R. Area: E*
- KIN 121 - Beginning Activities: Golf *Units: 1 ; G.E./G.R. Area: E*
- KIN 124 - Beginning Activities: Tennis *Units: 1 ; G.E./G.R. Area: E*
- KIN 128 - Beginning Activities: Jogging *Units: 1 ; G.E./G.R. Area: E*
- KIN 132 - Beginning Activities: Aerobic Fitness - Lap Swimming *Units: 1 ; G.E./G.R. Area: E*
- KIN 133 - Beginning Activities: Relaxation *Units: 1 ; G.E./G.R. Area: E*
- KIN 134 - Beginning Activities: Yoga *Units: 1 ; G.E./G.R. Area: E*
- KIN 135 - Beginning Activities: Tai Chi *Units: 1 ; G.E./G.R. Area: E*
- KIN 136 - Beginning Activities: Dance Fitness *Units: 1 ; G.E./G.R. Area: E*
- KIN 138 - Beginning Activities: Aerobic Fitness - Kick Boxing *Units: 1 ; G.E./G.R. Area: E*

- KIN 139 - Beginning Activities: Spin *Units: 1 ; G.E./G.R. Area: E*
- KIN 140 - Beginning Activities: Water Aerobics *Units: 1 ; G.E./G.R. Area: E*
- KIN 141 - Beginning Activities: Aerobic Condition *Units: 1 ; G.E./G.R. Area: E*
- KIN 143 - Beginning Activities: Pilates *Units: 1 ; G.E./G.R. Area: E*
- KIN 144 - Beginning Activities: Boot Camp Fitness *Units: 1 ; G.E./G.R. Area: E*
- KIN 145 - Beginning Activities: Firm and Tone *Units: 1 ; G.E./G.R. Area: E*
- KIN 147 - Beginning Activities: Indoor Soccer *Units: 1 ; G.E./G.R. Area: E*
- KIN 148 - Beginning Activities: Soccer - Tennis *Units: 1 ; G.E./G.R. Area: E*
- KIN 149 - Beginning Activities: Aerobic Walking *Units: 1 ; G.E./G.R. Area: E*
- KIN 152 - Beginning Activities: Water Polo *Units: 1 ; G.E./G.R. Area: E*
- KIN 154 - Beginning Activities: Flag Football *Units: 1 ; G.E./G.R. Area: E*
- KIN 155 - Beginning Activities: Table Tennis *Units: 1 ; G.E./G.R. Area: E*
- KIN 156 - Beginning Activities: Ultimate *Units: 1 ; G.E./G.R. Area: E*
- KIN 160 - Introduction to Kinesiology *Units: 3 ; G.E./G.R. Area: D1-3*
- KIN 162 - Nutrition and Performance *Units: 3 ; G.E./G.R. Area: B2*
- KIN 200 - Intermediate Activities: Badminton *Units: 1 ; G.E./G.R. Area: E*
- KIN 201 - Intermediate Activities: Basketball *Units: 1 ; G.E./G.R. Area: E*
- KIN 207 - Intermediate Activities: Swimming *Units: 1 ; G.E./G.R. Area: E*
- KIN 209 - Intermediate Activities: Volleyball *Units: 1 ; G.E./G.R. Area: E*
- KIN 210 - Intermediate Activities: Weight Training *Units: 1 ; G.E./G.R. Area: E*
- KIN 211 - Intermediate Activities: Circuit Training *Units: 1 ; G.E./G.R. Area: E*
- KIN 212 - Intermediate Activities: Fitness Training *Units: 1 ; G.E./G.R. Area: E*
- KIN 216 - Intermediate Activities: Taekwondo *Units: 1 ; G.E./G.R. Area: E*
- KIN 217 - Intermediate Activities: Soccer *Units: 1 ; G.E./G.R. Area: E*
- KIN 224 - Intermediate Activities: Tennis *Units: 1 ; G.E./G.R. Area: E*
- KIN 234 - Intermediate Activities: Yoga *Units: 1 ; G.E./G.R. Area: E*
- KIN 235 - Intermediate Activities: Tai Chi *Units: 1 ; G.E./G.R. Area: E*
- KIN 238 - Intermediate Activities: Kick Boxing *Units: 1 ; G.E./G.R. Area: E*
- KIN 240 - Intermediate Activities: Varied Activities *Units: 1 ; G.E./G.R. Area: E*
- KIN 241 - Intermediate Activities: Aerobic Conditioning *Units: 1 ; G.E./G.R. Area: E*
- KIN 242 - Intermediate Activities: Pilates *Units: 1 ; G.E./G.R. Area: E*
- KIN 247 - Intermediate Activities: Indoor Soccer *Units: 1 ; G.E./G.R. Area: E*
- KIN 251 - Advanced Activities: Basketball *Units: 1 ; G.E./G.R. Area: E*
- KIN 252 - Advanced Activities: Weight Training *Units: 1 ; G.E./G.R. Area: E*
- KIN 253 - Advanced Activities: Soccer *Units: 1 ; G.E./G.R. Area: E*
- KIN 254 - Intermediate Activities: Flag Football *Units: 1 ; G.E./G.R. Area: E*
- KIN 255 - Intermediate Activities: Table Tennis *Units: 1 ; G.E./G.R. Area: E*
- KIN 258 - Advanced Activities: Yoga *Units: 1 ; G.E./G.R. Area: E*
- KIN 261 - Competition Conditioning *Units: 2 ; G.E./G.R. Area: E*
- KIN 265 - CPR and First Aid *Units: 2 ; G.E./G.R. Area: E*
- KIN 270 - Women and Sport *Units: 3 ; G.E./G.R. Area: D1-3; Diversity*
- KIN 300 - Critical Inquiry in Kinesiology *Units: 4*
- KIN 301 - Applied Musculoskeletal Anatomy *Units: 3*
- KIN 302 - Social Justice in Kinesiology *Units: 4*
- KIN 303 - Biomechanics *Units: 4*
- KIN 304 - Motor Development *Units: 3*
- KIN 305 - Critical Issues of the Body *Units: 4*
- KIN 306 - Exercise Physiology *Units: 4*
- KIN 307 - Motor Skill Acquisition and Training *Units: 3*
- KIN 308 - Psychology of Physical Activity and Performance *Units: 4*
- KIN 310 - Bone Health and Exercise *Units: 3*

- • KIN 315 - Sport, Culture, and Power *Units: 3 ; G.E./G.R. Area: D4; Social Justice*
- • KIN 320 - Sport Film: Cultural Perspectives *Units: 3 ; G.E./G.R. Area: D4; Diversity*
- • KIN 321 - Elementary Classroom Teachers as Movement Educators *Units: 4*
- • KIN 340 - Ergonomics *Units: 3*
- • KIN 350 - Advanced Activities: Badminton *Units: 1*
- • KIN 354 - Advanced Activities: Taekwondo *Units: 1*
- • KIN 356 - Advanced Activities: Golf *Units: 1*
- • KIN 357 - Advanced Activities: Tennis *Units: 1*
- • KIN 360 - Aerobics Instructor Training *Units: 2*
- • KIN 362 - Advanced Activities: Indoor Soccer *Units: 1*
- • KIN 370 - US Twentieth Century Women's Sport *Units: 3 ; G.E./G.R. Area: C4; Diversity*
- • KIN 372 - Teaching Fitness and Self Defense *Units: 1*
- • KIN 375 - Concepts of Teaching Aquatics *Units: 1*
- • KIN 379 - Games Concepts I *Units: 2*
- • KIN 380 - Games Concepts II *Units: 2*
- • KIN 404 - Elementary Physical Education Curriculum *Units: 3*
- • KIN 405 - Theories of Teaching Secondary Physical Education Curriculum *Units: 3*
- • KIN 406 - Introduction to Adapted Physical Activity *Units: 3*
- • KIN 409 - Spinal Biomechanics & Low Back Disorders *Units: 3*
- • KIN 410 - Musculoskeletal Injuries in Work and Sport *Units: 3*
- • KIN 420 - Exercise Prescription *Units: 3*
- • KIN 421 - Clinical Exercise Physiology *Units: 3*
- • KIN 422 - Exercise Nutrition *Units: 3*
- • KIN 423 - Exercise and Stress *Units: 3*
- • KIN 424 - Exercise and Gerontology *Units: 3*
- • KIN 447 - Motor Skill Expertise *Units: 3*
- • KIN 448 - Mental Skills for Learning and Performance *Units: 3*
- • KIN 451 - Intercollegiate Athletics: Basketball *Units: 1*
- • KIN 453 - Intercollegiate Athletics: Baseball *Units: 1*
- • KIN 454 - Intercollegiate Athletics: Cross-Country *Units: 1*
- • KIN 455 - Intercollegiate Athletics: Outdoor Track *Units: 1*
- • KIN 458 - Intercollegiate Athletics: Golf *Units: 1*
- • KIN 461 - Exercise and Well-Being *Units: 3 ; G.E./G.R. Area: B6*
- • KIN 462 - Intercollegiate Athletics: Women's Basketball *Units: 1*
- • KIN 468 - Intercollegiate Athletics: Women's Volleyball *Units: 1*
- • KIN 469 - Intercollegiate Athletics: Soccer *Units: 1*
- • KIN 470 - Sport in the Local Community *Units: 3*
- • KIN 474 - Intercollegiate Athletics: Women's Softball *Units: 1*
- • KIN 477 - Intercollegiate Athletics: Women's Swimming *Units: 1*
- • KIN 478 - Intercollegiate Athletics: Women's Waterpolo *Units: 1*
- • KIN 480 - Gender and Sexualities in Sport *Units: 3*
- • KIN 483 - Intercollegiate Athletics: Women's Soccer *Units: 1*
- • KIN 489 - Sport, Racism, and Ethnicity *Units: 3 ; G.E./G.R. Area: D4; Social Justice*
- • KIN 490 - Independent Study *Units: 1 - 3*
- • KIN 493 - Project *Units: 1 - 3*
- • KIN 495 - Practicum in Kinesiology *Units: 1 - 3*
- • KIN 497 - Contemporary Issues in Kinesiology *Units: 3*
- • KIN 498 - Internship *Units: 1 - 3*

Kinesiology: Graduate

- • KIN 601 - Knowledge Construction in Kinesiology *Units: 4*

- KIN 602 - Critical Perspectives on the Body *Units: 4*
- KIN 603 - Psychomotor Aspects of Learning and Performance *Units: 4*
- KIN 604 - Effective Movement Instruction *Units: 4*
- KIN 605 - Physiological Basis of Exercise and Wellness *Units: 4*
- KIN 606 - Current Trends in Kinesiology: Myth Busters *Units: 4*
- KIN 607 - Assessment of Human Performance *Units: 4*
- KIN 608 - Biomechanics of Musculoskeletal Injury *Units: 4*
- KIN 609 - Synthesis in Kinesiology *Units: 4*
- KIN 685 - Supervised Research *Units: 1-4*
- KIN 690 - Independent Study *Units: 1-4*
- KIN 691 - University Thesis *Units: 4*
- KIN 692 - Comprehensive Exam Review *Units: 4*
- KIN 693 - Project *Units: 4*
- KIN 697 - Contemporary Issues in Kinesiology *Units: 4*
- KIN 698 - Internship *Units: 1-4*

Department of Management

The Department Office is located on the 4th floor of the VBT building, Room 435.

Hours Open: 9:00AM to 6:00PM Monday through Friday.

Dept. Phone: (510) 885 - 3307

Faculty

Professors Emeriti

Bijan Mashaw, Ph.D. Clemson University

Kenneth Pefkaros, Ph.D. University of Delaware

Associate Professor Emeritus

Alan P. Goldberg, Ph.D. University of Massachusetts

Professors

Jed DeVaro, Ph.D. Stanford University

Hongwei Du, Ph.D. Florida Institute of Technology

Vishwanath Hegde (Chair), Ph.D. University of Pittsburgh

Yi Karnes, Ph.D. Ohio State University

Xinjian Lu, Ph.D. University of Waterloo, Canada

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Kaumudi Misra, Ph.D. Michigan State University

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Stephanie Seitz, Ph.D. State University of New York at Buffalo

Lan Wang, Ph.D. University of Florida, Gainesville

Peng Xie, Ph.D. Georgia Institute of Technology

Masahisa Yamaguchi, Ph.D. University of Hawai'i at Manoa

Department Statement

Tough global competition requires companies to be extremely responsive to the needs and expectations of customers. In addition, many companies today are in a period of rapid changes brought about by technological breakthroughs, business globalization, and extended supply chains. In such a time, the role of the manager and the management professional in facing these challenges and maintaining a competitive edge becomes even more important. Our Management options provide students with an

exciting and diverse education in various areas of management including human resource management and organizational behavior, operations and supply chain management, strategy and international business, and information technology management. Past and present employers of our Management students include almost all major firms, and numerous small and mid-size companies in the Bay Area.

About the Department

Use our university website link to learn more about what the Management Department has to offer.

- Office Hours & Teaching Schedule
- Degree Roadmaps
- Faculty & Staff
- Course Student Learning Outcomes
- Department News
- And more...

Bachelor

Business Administration, B.S.: General Management Concentration (Available Online)

Business Administration, B.S. Program (120 units)

Program Description

The College of Business and Economics, which offers the Bachelor of Science in Business Administration (B.S.B.A.) program, is committed to providing life-changing, quality business education to prepare students from diverse backgrounds to become successful business professionals and leaders. The B.S.B.A. program imparts students with the knowledge and skills necessary to understand the changing global business environment and to prepare students for success in their professional careers.

The B.S.B.A. major program is structured around a set of core courses enabling students to develop general business perspective and skills. Students are required to choose an area of specialization, i.e., concentration, corresponding to their desired career path. In addition, the program allows students flexibility to customize their specialization by choosing business elective courses. These electives may be chosen to further strengthen their preparation in their chosen concentration.

The undergraduate and the graduate programs in the College of Business and Economics are accredited by the Association to Advance Collegiate Schools of Business International (AACSB).

Program Learning Outcomes

Students graduating with a Bachelor of Science in Business Administration will be able to:

- Recognize and integrate foundation knowledge across functional areas.
- Apply critical thinking skills to solve business problems.
- Understand and apply quantitative methods and tools in evaluating business problems and making effective business decisions.
- Apply technology to analyze data and provide solutions to business problems.

- Apply effective oral communication skills in a diverse and global environment.
- Apply effective written communication skills in a diverse and global environment.
- Apply effective team skills to work in a diverse and global environment.
- Identify and assess ethical issues and properly articulate ethical decisions.

Expiration of Courses

Upper division major/concentration requirement courses will expire ten years after completion of the term in which they are earned. Expired courses cannot be used to fulfill degree requirements and must be replaced by current credits. Requests for waivers of the ten-year limit for extenuating circumstances, other than mere failure to register, are made to the department chair in which the course resides and the director of undergraduate programs.

Transfer of Courses

Upper division courses will only be considered for equivalency or transfer credit if they are from AACSB accredited institutions. Exceptions will be made for programs that have current and signed agreements with the College of Business and Economics.

Degree Requirements

The B.S. degree requires a total of 120 units. In addition to General Education courses and other graduation requirements, the Business Administration major requires three sets of courses: (I) lower division core courses, (II) upper division core courses, and (III) courses to fulfill concentration requirements.

Degree Requirements Unit-Outline

- A baccalaureate of science degree requires a total of 120 units:
 - The major requirements consists of 75 units;
 - General Education (GE) & Graduation Requirements (GR) consists of 57 units;
 - Free Electives may consist of 0 units (*actual number of free elective units may depend on GE/GR units*).

Note: It may be possible to double-count units within the graduation requirements or that a course may satisfy both a graduation requirement and a major requirement. Students should contact their program and AACE advisors for information.

Business Administration Major Requirements (75 units)

Note: Please see the Errata pages for corrections made to the major requirements effective for all concentrations.

Lower Division Core Courses

The following 18 units of lower-division coursework are required:

- ACCT 210 - Introduction to Financial Accounting *Units: 3*
- ACCT 215 - Introduction to Managerial Accounting *Units: 3*

- **ECON 200 - Principles of Microeconomics** *Units: 3 ; G.E./G.R. Area: D1-3; Social Justice*
- **ECON 205 - Principles of Macroeconomics** *Units: 3 ; G.E./G.R. Area: D1-3*
- **MATH 180 - Mathematics for Business with Calculus** *Units: 3 ; G.E./G.R. Area: B4*
- **STAT 110 - Elements of Statistics for Business and Economics** *Units: 3*

Upper Division Core Courses

The following 27 units of upper-division coursework is required:

- **BUS 310 - Organizational Behavior** *Units: 3*
- **BUS 325 - Marketing Principles** *Units: 3*
- **BUS 330 - Financial Management** *Units: 3*
- **BUS 335 - Communications in Team Building** *Units: 3*
- **BUS 360 - Operations Management** *Units: 3*
- **BUS 499 - Seminar in Strategic Business Management** *Units: 3*
- **ECON 380 - Managerial Economics and Business Strategy** *Units: 3 ; G.E./G.R. Area: B6; Sustainability*
- **MGMT 350 - Decision Science** *Units: 3 ; G.E./G.R. Area: B6*

Plus, choose one (1) course from the following:

- **BUS 385 - International Business** *Units: 3 OR*
- **ECON 385 - Global Economic Analysis** *Units: 3 Recommended for Business Economics concentration students*

Concentration Requirements

Students must select one (1) of the following concentrations for 30 units:

- Business Administration, B.S.: Accounting Concentration
- Business Administration, B.S.: Business Economics Concentration
- Business Administration, B.S.: Entrepreneurship Concentration
- Business Administration, B.S.: Finance Concentration (Available Online)
- Business Administration, B.S.: General Management Concentration (Available Online)
- Business Administration, B.S.: Human Resources Management & Organizational Behavior Concentration
- Business Administration, B.S.: Information Technology Management Concentration (Available Online)
- Business Administration, B.S.: Marketing Management Concentration
- Business Administration, B.S.: Operations and Supply Chain Management Concentration (Available Online)

General Management Concentration

The coursework in the General Management concentration allows breadth of study in business fields. Students can choose upper division courses from different concentrations offered by the College of

Business and Economics (excluding ECON 300, ECON 385, MGMT 385, MKTG 305) that meet their needs, interests, and career goals.

Required Courses

The following 12 units are required:

- **BUS 220 - Legal Environment of Business** *Units: 3 ; G.E./G.R. Area: D1-3; Social Justice*
- **BUS 320 - Business and Professional Ethics** *Units: 3*
- **BUS 340 - Information Technology Management** *Units: 3*
- **BUS 370 - Business, Government and Society** *Units: 3*

Elective Courses

Select six (6) upper-division courses for 18 units.

- Courses must be drawn from at least two different concentrations offered by the College of Business and Economics (excluding ECON 300, ECON 385, MGMT 385, MKTG 305).
- No more than 12 units may be taken from any one concentration.
Note: No more than 3 units used to fulfill other requirements (e.g., for general education, minors, or other BSBA concentrations) can be counted toward the requirements for the General Management concentration. The BUS prefix is not for any one concentration. Concentrations offered by the College of Business and Economics are as follows:
- Accounting (ACCT prefix)
- Business Economics (ECON prefix)
- Entrepreneurship
- Finance (FIN prefix)
- Human Resources Management and Organizational Behavior (MGMT prefix but only those courses listed under Human Resources Management and Organizational Behavior)
- Information Technology Management (ITM prefix)
- Marketing Management (MKTG prefix)
- Operations and Supply Chain Management (MGMT prefix but only those courses listed under Operations and Supply Chain Management)

Other Undergraduate Degree Requirements

In addition to major requirements, every student must also complete the University's baccalaureate requirements for graduation, which are described in the Requirements, Exams & Testing chapter of this catalog.

Department Courses Listed by Course Type

Management Courses

Department of Management

Go to information for this department.

Courses

Information Technology Management

- ITM 330 - Business Applications Programming *Units: 3*
- ITM 331 - Database Management Systems *Units: 3*
- ITM 332 - Business Data Communications *Units: 3*
- ITM 336 - Information Systems Development and Management *Units: 3*
- ITM 338 - E-Business Technology and Management *Units: 3*
- ITM 398 - Internship *Units: 1-3*
- ITM 440 - Business Intelligence Systems *Units: 3*
- ITM 442 - Healthcare Information Systems *Units: 3*
- ITM 446 - Information Security *Units: 3*
- ITM 448 - Information Systems Analytics *Units: 3*
- ITM 449 - Advanced Topics in Information Technology *Units: 3*
- ITM 490 - Independent Study *Units: 1-4*
- ITM 497 - Issues in Information Technology Management *Units: 3*

Information Technology Management: Graduate

- ITM 690 - Independent Study *Units: 1-4*
- ITM 697 - Issues in Information Technology Management *Units: 3*
- ITM 698 - Internship *Units: 1-3*

Management

- BUS 110 - Fundamentals of Information Systems and Applications *Units: 3*
- BUS 310 - Organizational Behavior *Units: 3*
- BUS 320 - Business and Professional Ethics *Units: 3*
- BUS 340 - Information Technology Management *Units: 3*
- BUS 360 - Operations Management *Units: 3*
- BUS 370 - Business, Government and Society *Units: 3*
- BUS 385 - International Business *Units: 3*
- BUS 499 - Seminar in Strategic Business Management *Units: 3*
- MGMT 311 - Managing Diversity in the 21st Century Workplace *Units: 3*
- MGMT 312 - Human Resources Management *Units: 3*
- MGMT 314 - Leadership and Management *Units: 3*
- MGMT 316 - Training and Development *Units: 3*
- MGMT 318 - Employee Relations and Employment Law *Units: 3*
- MGMT 320 - Negotiation and Conflict Management *Units: 3*
- MGMT 350 - Decision Science *Units: 3 ; G.E./G.R. Area: B6*
- MGMT 362 - Service Management *Units: 3*
- MGMT 364 - Global Supply Chain Management *Units: 3*
- MGMT 365 - Enterprise Resource Planning and Control *Units: 3*
- MGMT 366 - Logistics Management *Units: 3*
- MGMT 368 - Quality and Process Improvement *Units: 3*
- MGMT 369 - Supply Management and E-Commerce *Units: 3*
- MGMT 398 - Internship *Units: 1-3*
- MGMT 400 - Seminar on Special Topics in Human Resource Management and Organizational Behavior *Units: 3*
- MGMT 402 - Managing the Global Workplace *Units: 3*

- MGMT 404 - Staffing and Talent Management *Units: 3*
- MGMT 406 - Compensation and Reward Systems *Units: 3*
- MGMT 408 - HR Analytics *Units: 3*
- MGMT 450 - Project Management *Units: 3*
- MGMT 455 - Supply Chain Data Analytics *Units: 3*
- MGMT 460 - Healthcare Operations Management *Units: 3*
- MGMT 465 - Emerging Technologies in Operations *Units: 3*
- MGMT 490 - Independent Study *Units: 1-4*
- MGMT 497 - Issues in Management *Units: 3*

Management: Graduate

- BAN 601 - Technology Fundamentals for Analytics *Units: 3*
- BAN 602 - Quantitative Fundamentals for Analytics *Units: 3*
- BAN 610 - Database Management and Applications *Units: 3*
- BAN 612 - Data Analytics *Units: 3*
- BAN 620 - Data Mining *Units: 3*
- BAN 622 - Data Warehousing and Business Intelligence *Units: 3*
- BAN 630 - Optimization Methods for Analytics *Units: 3*
- BAN 632 - Big Data Technology and Applications *Units: 3*
- BAN 660 - Advanced Topics in Big Data *Units: 3*
- BAN 670 - Advanced Topics in Analytics *Units: 3*
- BAN 671 - Data Analytics with R *Units: 3*
- BAN 672 - Data Analytics with SAS *Units: 3*
- BAN 673 - Time Series Analytics *Units: 3*
- BAN 674 - Machine Learning for Business Analytics *Units: 3*
- BAN 675 - Text Mining and Social Media Analytics *Units: 3*
- BAN 676 - Deep Learning for Business Applications *Units: 3*
- BAN 693 - Business Analytics Capstone Project *Units: 3*
- BUS 601 - Leadership and Communication in Organizations *Units: 3*
- BUS 602 - Business Analytics for Managers *Units: 3*
- BUS 603 - Managing Complex Issues in Global Context *Units: 3 ; G.E./G.R. Area: UWSR*
- BUS 608 - Operations and Supply Chain Management *Units: 3*
- BUS 609 - Negotiation and Conflict Resolution *Units: 3*
- BUS 693 - Strategic Management Capstone (Project) *Units: 3*
- MGMT 610 - Strategic Human Resources Management *Units: 3*
- MGMT 612 - Strategic Compensation and Reward Systems *Units: 3*
- MGMT 614 - Talent Management *Units: 3*
- MGMT 616 - People Analytics *Units: 3*
- MGMT 618 - Human Resources and the Law *Units: 3*
- MGMT 620 - Leading Teams and Managing Creativity *Units: 3*
- MGMT 622 - Managing the Global Workplace *Units: 3*
- MGMT 624 - Special Topics in Human Resource Management and Organizational Behavior

Units: 3

- MGMT 650 - Global and Sustainable Supply Chains *Units: 3*
- MGMT 652 - Service Operations Management *Units: 3*
- MGMT 654 - Enterprise Planning and Control *Units: 3*
- MGMT 656 - Quality and Lean Management *Units: 3*
- MGMT 658 - Project Management *Units: 3*
- MGMT 660 - Healthcare Operations Management *Units: 3*
- MGMT 662 - Operations Analytics *Units: 3*
- MGMT 670 - Strategic Industry and Competitive Analysis *Units: 3*

- MGMT 675 - Innovation Strategy Units: 3
- MGMT 676 - Global Strategy Units: 3
- MGMT 677 - International Field Immersion Units: 3
- MGMT 678 - Design Thinking for Leaders Units: 3
- MGMT 680 - Sustainability Strategy Units: 3
- MGMT 685 - Non-Market Strategy Units: 3
- MGMT 688 - Business Opportunity Consulting Project Units: 3
- MGMT 690 - Independent Study Units: 1-4
- MGMT 697 - Issues in Management Units: 3
- MGMT 698 - Internship Units: 1-3

Note: Please see Errata page for corrections to BAN course content.

Business Administration, B.S.: Human Resources Management & Organizational Behavior Concentration

Business Administration, B.S. Program (120 units)

Program Description

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- Understand and apply quantitative methods and tools in evaluating business problems and making effective business decisions.
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- Apply effective oral communication skills in a diverse and global environment.
- Apply effective written communication skills in a diverse and global environment.
- Apply effective team skills to work in a diverse and global environment.
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Upper division major/concentration requirement courses will expire ten years after completion of the term in which they are earned. Expired courses cannot be used to fulfill degree requirements and must be replaced by current credits. Requests for waivers of the ten-year limit for extenuating circumstances, other than mere failure to register, are made to the department chair in which the course resides and the director of undergraduate programs.

Transfer of Courses

Upper division courses will only be considered for equivalency or transfer credit if they are from AACSB accredited institutions. Exceptions will be made for programs that have current and signed agreements with the College of Business and Economics.

Degree Requirements

The B.S. degree requires a total of 120 units. In addition to General Education courses and other graduation requirements, the Business Administration major requires three sets of courses: (I) lower division core courses, (II) upper division core courses, and (III) courses to fulfill concentration requirements.

Degree Requirements Unit-Outline

- A baccalaureate of science degree requires a total of 120 units:
 - The major requirements consists of 75 units;
 - General Education (GE) & Graduation Requirements (GR) consists of 57 units;
 - Free Electives may consist of 0 units (*actual number of free elective units may depend on GE/GR units*).

Note: It may be possible to double-count units within the graduation requirements or that a course may satisfy both a graduation requirement and a major requirement. Students should contact their program and AACE advisors for information.

Business Administration Major Requirements (75 units)

Note: Please see the Errata pages for corrections made to the major requirements effective for all concentrations.

Lower Division Core Courses

The following 18 units of lower-division coursework are required:

- ACCT 210 - Introduction to Financial Accounting Units: 3
- ACCT 215 - Introduction to Managerial Accounting Units: 3
- ECON 200 - Principles of Microeconomics Units: 3 ; G.E./G.R. Area: D1-3; Social Justice
- ECON 205 - Principles of Macroeconomics Units: 3 ; G.E./G.R. Area: D1-3
- MATH 180 - Mathematics for Business with Calculus Units: 3 ; G.E./G.R. Area: B4
- STAT 110 - Elements of Statistics for Business and Economics Units: 3

Upper Division Core Courses

The following 27 units of upper-division coursework is required:

- BUS 310 - Organizational Behavior *Units: 3*
- BUS 325 - Marketing Principles *Units: 3*
- BUS 330 - Financial Management *Units: 3*
- BUS 335 - Communications in Team Building *Units: 3*
- BUS 360 - Operations Management *Units: 3*
- BUS 499 - Seminar in Strategic Business Management *Units: 3*
- ECON 380 - Managerial Economics and Business Strategy *Units: 3 ; G.E./G.R. Area: B6; Sustainability*
- MGMT 350 - Decision Science *Units: 3 ; G.E./G.R. Area: B6*

Plus, choose one (1) course from the following:

- BUS 385 - International Business *Units: 3 OR*
- ECON 385 - Global Economic Analysis *Units: 3 Recommended for Business Economics concentration students*

Concentration Requirements

Students must select one (1) of the following concentrations for 30 units:

- Business Administration, B.S.: Accounting Concentration
- Business Administration, B.S.: Business Economics Concentration
- Business Administration, B.S.: Entrepreneurship Concentration
- Business Administration, B.S.: Finance Concentration (Available Online)
- Business Administration, B.S.: General Management Concentration (Available Online)
- Business Administration, B.S.: Human Resources Management & Organizational Behavior Concentration
- Business Administration, B.S.: Information Technology Management Concentration (Available Online)
- Business Administration, B.S.: Marketing Management Concentration
- Business Administration, B.S.: Operations and Supply Chain Management Concentration (Available Online)

Human Resources Management & Organizational Behavior Concentration

The coursework in the Human Resources Management/Organizational Behavior (HRM/OB) concentration centers on how firms can best utilize their most critical resource, their employees, to create a work environment that promotes excellence. It prepares students for careers in HRM and also general management by providing a depth of knowledge in HRM functions, and also a breadth in the soft skills necessary for effective leadership, in a variety of organizations. Coursework is concerned with recruiting and selecting the best employees, determining fair compensation, learning how to comply with employment laws, performance management, people analytics, negotiations, leadership, creativity and managing diverse teams.

Required Course

The following 15 units course is required:

- BUS 220 - Legal Environment of Business *Units: 3 ; G.E./G.R. Area: D1-3; Social Justice*
- BUS 320 - Business and Professional Ethics *Units: 3*
- BUS 340 - Information Technology Management *Units: 3*
- BUS 370 - Business, Government and Society *Units: 3*
- MGMT 312 - Human Resources Management *Units: 3*

Elective Courses

Select five (5) courses for 15 units from the following list:

- MGMT 311 - Managing Diversity in the 21st Century Workplace *Units: 3*
- MGMT 314 - Leadership and Management *Units: 3*
- MGMT 316 - Training and Development *Units: 3*
- MGMT 318 - Employee Relations and Employment Law *Units: 3*
- MGMT 320 - Negotiation and Conflict Management *Units: 3*
- MGMT 400 - Seminar on Special Topics in Human Resource Management and Organizational Behavior *Units: 3*
- MGMT 402 - Managing the Global Workplace *Units: 3*
- MGMT 404 - Staffing and Talent Management *Units: 3*
- MGMT 406 - Compensation and Reward Systems *Units: 3*
- MGMT 408 - HR Analytics *Units: 3*

Other Undergraduate Degree Requirements

In addition to major requirements, every student must also complete the University's baccalaureate requirements for graduation, which are described in the Requirements, Exams & Testing chapter of this catalog.

Department Courses Listed by Course Type

Management Courses

Department of Management

Go to information for this department.

Courses

Information Technology Management

- ITM 330 - Business Applications Programming *Units: 3*

- ITM 331 - Database Management Systems *Units: 3*
- ITM 332 - Business Data Communications *Units: 3*
- ITM 336 - Information Systems Development and Management *Units: 3*
- ITM 338 - E-Business Technology and Management *Units: 3*
- ITM 398 - Internship *Units: 1-3*
- ITM 440 - Business Intelligence Systems *Units: 3*
- ITM 442 - Healthcare Information Systems *Units: 3*
- ITM 446 - Information Security *Units: 3*
- ITM 448 - Information Systems Analytics *Units: 3*
- ITM 449 - Advanced Topics in Information Technology *Units: 3*
- ITM 490 - Independent Study *Units: 1-4*
- ITM 497 - Issues in Information Technology Management *Units: 3*

Information Technology Management: Graduate

- ITM 690 - Independent Study *Units: 1-4*
- ITM 697 - Issues in Information Technology Management *Units: 3*
- ITM 698 - Internship *Units: 1-3*

Management

- BUS 110 - Fundamentals of Information Systems and Applications *Units: 3*
- BUS 310 - Organizational Behavior *Units: 3*
- BUS 320 - Business and Professional Ethics *Units: 3*
- BUS 340 - Information Technology Management *Units: 3*
- BUS 360 - Operations Management *Units: 3*
- BUS 370 - Business, Government and Society *Units: 3*
- BUS 385 - International Business *Units: 3*
- BUS 499 - Seminar in Strategic Business Management *Units: 3*
- MGMT 311 - Managing Diversity in the 21st Century Workplace *Units: 3*
- MGMT 312 - Human Resources Management *Units: 3*
- MGMT 314 - Leadership and Management *Units: 3*
- MGMT 316 - Training and Development *Units: 3*
- MGMT 318 - Employee Relations and Employment Law *Units: 3*
- MGMT 320 - Negotiation and Conflict Management *Units: 3*
- MGMT 350 - Decision Science *Units: 3 ; G.E./G.R. Area: B6*
- MGMT 362 - Service Management *Units: 3*
- MGMT 364 - Global Supply Chain Management *Units: 3*
- MGMT 365 - Enterprise Resource Planning and Control *Units: 3*
- MGMT 366 - Logistics Management *Units: 3*
- MGMT 368 - Quality and Process Improvement *Units: 3*
- MGMT 369 - Supply Management and E-Commerce *Units: 3*
- MGMT 398 - Internship *Units: 1-3*
- MGMT 400 - Seminar on Special Topics in Human Resource Management and Organizational Behavior *Units: 3*

Behavior

- MGMT 402 - Managing the Global Workplace *Units: 3*
- MGMT 404 - Staffing and Talent Management *Units: 3*
- MGMT 406 - Compensation and Reward Systems *Units: 3*
- MGMT 408 - HR Analytics *Units: 3*
- MGMT 450 - Project Management *Units: 3*
- MGMT 455 - Supply Chain Data Analytics *Units: 3*
- MGMT 460 - Healthcare Operations Management *Units: 3*
- MGMT 465 - Emerging Technologies in Operations *Units: 3*

- MGMT 490 - Independent Study *Units: 1-4*
- MGMT 497 - Issues in Management *Units: 3*

Management: Graduate

- BAN 601 - Technology Fundamentals for Analytics *Units: 3*
- BAN 602 - Quantitative Fundamentals for Analytics *Units: 3*
- BAN 610 - Database Management and Applications *Units: 3*
- BAN 612 - Data Analytics *Units: 3*
- BAN 620 - Data Mining *Units: 3*
- BAN 622 - Data Warehousing and Business Intelligence *Units: 3*
- BAN 630 - Optimization Methods for Analytics *Units: 3*
- BAN 632 - Big Data Technology and Applications *Units: 3*
- BAN 660 - Advanced Topics in Big Data *Units: 3*
- BAN 670 - Advanced Topics in Analytics *Units: 3*
- BAN 671 - Data Analytics with R *Units: 3*
- BAN 672 - Data Analytics with SAS *Units: 3*
- BAN 673 - Time Series Analytics *Units: 3*
- BAN 674 - Machine Learning for Business Analytics *Units: 3*
- BAN 675 - Text Mining and Social Media Analytics *Units: 3*
- BAN 676 - Deep Learning for Business Applications *Units: 3*
- BAN 693 - Business Analytics Capstone Project *Units: 3*
- BUS 601 - Leadership and Communication in Organizations *Units: 3*
- BUS 602 - Business Analytics for Managers *Units: 3*
- BUS 603 - Managing Complex Issues in Global Context *Units: 3 ; G.E./G.R. Area: UWSR*
- BUS 608 - Operations and Supply Chain Management *Units: 3*
- BUS 609 - Negotiation and Conflict Resolution *Units: 3*
- BUS 693 - Strategic Management Capstone (Project) *Units: 3*
- MGMT 610 - Strategic Human Resources Management *Units: 3*
- MGMT 612 - Strategic Compensation and Reward Systems *Units: 3*
- MGMT 614 - Talent Management *Units: 3*
- MGMT 616 - People Analytics *Units: 3*
- MGMT 618 - Human Resources and the Law *Units: 3*
- MGMT 620 - Leading Teams and Managing Creativity *Units: 3*
- MGMT 622 - Managing the Global Workplace *Units: 3*
- MGMT 624 - Special Topics in Human Resource Management and Organizational Behavior

Units: 3

- MGMT 650 - Global and Sustainable Supply Chains *Units: 3*
- MGMT 652 - Service Operations Management *Units: 3*
- MGMT 654 - Enterprise Planning and Control *Units: 3*
- MGMT 656 - Quality and Lean Management *Units: 3*
- MGMT 658 - Project Management *Units: 3*
- MGMT 660 - Healthcare Operations Management *Units: 3*
- MGMT 662 - Operations Analytics *Units: 3*
- MGMT 670 - Strategic Industry and Competitive Analysis *Units: 3*
- MGMT 675 - Innovation Strategy *Units: 3*
- MGMT 676 - Global Strategy *Units: 3*
- MGMT 677 - International Field Immersion *Units: 3*
- MGMT 678 - Design Thinking for Leaders *Units: 3*
- MGMT 680 - Sustainability Strategy *Units: 3*
- MGMT 685 - Non-Market Strategy *Units: 3*
- MGMT 688 - Business Opportunity Consulting Project *Units: 3*

- MGMT 690 - Independent Study *Units: 1-4*
- MGMT 697 - Issues in Management *Units: 3*
- MGMT 698 - Internship *Units: 1-3*

Note: Please see Errata page for corrections to BAN course content.

Business Administration, B.S.: Information Technology Management Concentration (Available Online)

Business Administration, B.S. Program (120 units)

Program Description

The College of Business and Economics, which offers the Bachelor of Science in Business Administration (B.S.B.A.) program, is committed to providing life-changing, quality business education to prepare students from diverse backgrounds to become successful business professionals and leaders. The B.S.B.A. program imparts students with the knowledge and skills necessary to understand the changing global business environment and to prepare students for success in their professional careers.

The B.S.B.A. major program is structured around a set of core courses enabling students to develop general business perspective and skills. Students are required to choose an area of specialization, i.e., concentration, corresponding to their desired career path. In addition, the program allows students flexibility to customize their specialization by choosing business elective courses. These electives may be chosen to further strengthen their preparation in their chosen concentration.

The undergraduate and the graduate programs in the College of Business and Economics are accredited by the Association to Advance Collegiate Schools of Business International (AACSB).

Program Learning Outcomes

Students graduating with a Bachelor of Science in Business Administration will be able to:

- Recognize and integrate foundation knowledge across functional areas.
- Apply critical thinking skills to solve business problems.
- Understand and apply quantitative methods and tools in evaluating business problems and making effective business decisions.
- Apply technology to analyze data and provide solutions to business problems.
- Apply effective oral communication skills in a diverse and global environment.
- Apply effective written communication skills in a diverse and global environment.
- Apply effective team skills to work in a diverse and global environment.
- Identify and assess ethical issues and properly articulate ethical decisions.

Expiration of Courses

Upper division major/concentration requirement courses will expire ten years after completion of the term in which they are earned. Expired courses cannot be used to fulfill degree requirements and must be replaced by current credits. Requests for waivers of the ten-year limit for extenuating circumstances, other than mere failure to register, are made to the department chair in which the course resides and the director of undergraduate programs.

Transfer of Courses

Upper division courses will only be considered for equivalency or transfer credit if they are from AACSB accredited institutions. Exceptions will be made for programs that have current and signed agreements with the College of Business and Economics.

Degree Requirements

The B.S. degree requires a total of 120 units. In addition to General Education courses and other graduation requirements, the Business Administration major requires three sets of courses: (I) lower division core courses, (II) upper division core courses, and (III) courses to fulfill concentration requirements.

Degree Requirements Unit-Outline

- A baccalaureate of science degree requires a total of 120 units:
 - The major requirements consists of 75 units;
 - General Education (GE) & Graduation Requirements (GR) consists of 57 units;
 - Free Electives may consist of 0 units (*actual number of free elective units may depend on GE/GR units*).

Note: It may be possible to double-count units within the graduation requirements or that a course may satisfy both a graduation requirement and a major requirement. Students should contact their program and AACE advisors for information.

Business Administration Major Requirements (75 units)

Note: Please see the Errata pages for corrections made to the major requirements effective for all concentrations.

Lower Division Core Courses

The following 18 units of lower-division coursework are required:

- ACCT 210 - Introduction to Financial Accounting Units: 3
- ACCT 215 - Introduction to Managerial Accounting Units: 3
- ECON 200 - Principles of Microeconomics Units: 3 ; G.E./G.R. Area: D1-3; Social Justice
- ECON 205 - Principles of Macroeconomics Units: 3 ; G.E./G.R. Area: D1-3
- MATH 180 - Mathematics for Business with Calculus Units: 3 ; G.E./G.R. Area: B4
- STAT 110 - Elements of Statistics for Business and Economics Units: 3

Upper Division Core Courses

The following 27 units of upper-division coursework is required:

- BUS 310 - Organizational Behavior Units: 3
- BUS 325 - Marketing Principles Units: 3

- BUS 330 - Financial Management *Units: 3*
 - BUS 335 - Communications in Team Building *Units: 3*
 - BUS 360 - Operations Management *Units: 3*
 - BUS 499 - Seminar in Strategic Business Management *Units: 3*
 - ECON 380 - Managerial Economics and Business Strategy *Units: 3 ; G.E./G.R.*
- Area: B6; Sustainability*
- MGMT 350 - Decision Science *Units: 3 ; G.E./G.R. Area: B6*

Plus, choose one (1) course from the following:

- BUS 385 - International Business *Units: 3 OR*
- ECON 385 - Global Economic Analysis *Units: 3 Recommended for Business Economics concentration students*

Concentration Requirements

Students must select one (1) of the following concentrations for 30 units:

- Business Administration, B.S.: Accounting Concentration
- Business Administration, B.S.: Business Economics Concentration
- Business Administration, B.S.: Entrepreneurship Concentration
- Business Administration, B.S.: Finance Concentration (Available Online)
- Business Administration, B.S.: General Management Concentration (Available Online)
- Business Administration, B.S.: Human Resources Management & Organizational Behavior Concentration
- Business Administration, B.S.: Information Technology Management Concentration (Available Online)
- Business Administration, B.S.: Marketing Management Concentration
- Business Administration, B.S.: Operations and Supply Chain Management Concentration (Available Online)

Information Technology Management Concentration

The coursework in the Information Technology Management concentration prepares graduates for careers in managing information technology in various industries and organizations. The ITM curriculum provides students with the technical and managerial knowledge and skills needed to effectively integrate people, information and communication technologies with business and management processes. Graduates of this concentration will have a solid understanding of information technology applications in different areas of business, how these applications are embedded within their respective business processes, and add value to them.

Required Courses

The following 18 units are required:

- BUS 220 - Legal Environment of Business *Units: 3 ; G.E./G.R. Area: D1-3; Social Justice*
- BUS 320 - Business and Professional Ethics *Units: 3*

- BUS 340 - Information Technology Management *Units: 3*
- BUS 370 - Business, Government and Society *Units: 3*
- ITM 330 - Business Applications Programming *Units: 3*
- ITM 331 - Database Management Systems *Units: 3*

Elective Courses

Select four (4) courses for 12 units from the following list:

- ITM 332 - Business Data Communications *Units: 3*
- ITM 336 - Information Systems Development and Management *Units: 3*
- ITM 338 - E-Business Technology and Management *Units: 3*
- ITM 440 - Business Intelligence Systems *Units: 3*
- ITM 442 - Healthcare Information Systems *Units: 3*
- ITM 446 - Information Security *Units: 3*
- ITM 448 - Information Systems Analytics *Units: 3*
- ITM 449 - Advanced Topics in Information Technology *Units: 3*

Other Undergraduate Degree Requirements

In addition to major requirements, every student must also complete the University's baccalaureate requirements for graduation, which are described in the Requirements, Exams & Testing chapter of this catalog.

Department Courses Listed by Course Type

Management Courses

Department of Management

Go to information for this department.

Courses

Information Technology Management

- ITM 330 - Business Applications Programming *Units: 3*
- ITM 331 - Database Management Systems *Units: 3*
- ITM 332 - Business Data Communications *Units: 3*
- ITM 336 - Information Systems Development and Management *Units: 3*
- ITM 338 - E-Business Technology and Management *Units: 3*
- ITM 398 - Internship *Units: 1-3*
- ITM 440 - Business Intelligence Systems *Units: 3*
- ITM 442 - Healthcare Information Systems *Units: 3*
- ITM 446 - Information Security *Units: 3*
- ITM 448 - Information Systems Analytics *Units: 3*
- ITM 449 - Advanced Topics in Information Technology *Units: 3*

- ITM 490 - Independent Study *Units: 1-4*
- ITM 497 - Issues in Information Technology Management *Units: 3*

Information Technology Management: Graduate

- ITM 690 - Independent Study *Units: 1-4*
- ITM 697 - Issues in Information Technology Management *Units: 3*
- ITM 698 - Internship *Units: 1-3*

Management

- BUS 110 - Fundamentals of Information Systems and Applications *Units: 3*
- BUS 310 - Organizational Behavior *Units: 3*
- BUS 320 - Business and Professional Ethics *Units: 3*
- BUS 340 - Information Technology Management *Units: 3*
- BUS 360 - Operations Management *Units: 3*
- BUS 370 - Business, Government and Society *Units: 3*
- BUS 385 - International Business *Units: 3*
- BUS 499 - Seminar in Strategic Business Management *Units: 3*
- MGMT 311 - Managing Diversity in the 21st Century Workplace *Units: 3*
- MGMT 312 - Human Resources Management *Units: 3*
- MGMT 314 - Leadership and Management *Units: 3*
- MGMT 316 - Training and Development *Units: 3*
- MGMT 318 - Employee Relations and Employment Law *Units: 3*
- MGMT 320 - Negotiation and Conflict Management *Units: 3*
- MGMT 350 - Decision Science *Units: 3 ; G.E./G.R. Area: B6*
- MGMT 362 - Service Management *Units: 3*
- MGMT 364 - Global Supply Chain Management *Units: 3*
- MGMT 365 - Enterprise Resource Planning and Control *Units: 3*
- MGMT 366 - Logistics Management *Units: 3*
- MGMT 368 - Quality and Process Improvement *Units: 3*
- MGMT 369 - Supply Management and E-Commerce *Units: 3*
- MGMT 398 - Internship *Units: 1-3*
- MGMT 400 - Seminar on Special Topics in Human Resource Management and Organizational

Behavior *Units: 3*

- MGMT 402 - Managing the Global Workplace *Units: 3*
- MGMT 404 - Staffing and Talent Management *Units: 3*
- MGMT 406 - Compensation and Reward Systems *Units: 3*
- MGMT 408 - HR Analytics *Units: 3*
- MGMT 450 - Project Management *Units: 3*
- MGMT 455 - Supply Chain Data Analytics *Units: 3*
- MGMT 460 - Healthcare Operations Management *Units: 3*
- MGMT 465 - Emerging Technologies in Operations *Units: 3*
- MGMT 490 - Independent Study *Units: 1-4*
- MGMT 497 - Issues in Management *Units: 3*

Management: Graduate

- BAN 601 - Technology Fundamentals for Analytics *Units: 3*
- BAN 602 - Quantitative Fundamentals for Analytics *Units: 3*
- BAN 610 - Database Management and Applications *Units: 3*
- BAN 612 - Data Analytics *Units: 3*
- BAN 620 - Data Mining *Units: 3*
- BAN 622 - Data Warehousing and Business Intelligence *Units: 3*
- BAN 630 - Optimization Methods for Analytics *Units: 3*

- • BAN 632 - Big Data Technology and Applications *Units: 3*
- • BAN 660 - Advanced Topics in Big Data *Units: 3*
- • BAN 670 - Advanced Topics in Analytics *Units: 3*
- • BAN 671 - Data Analytics with R *Units: 3*
- • BAN 672 - Data Analytics with SAS *Units: 3*
- • BAN 673 - Time Series Analytics *Units: 3*
- • BAN 674 - Machine Learning for Business Analytics *Units: 3*
- • BAN 675 - Text Mining and Social Media Analytics *Units: 3*
- • BAN 676 - Deep Learning for Business Applications *Units: 3*
- • BAN 693 - Business Analytics Capstone Project *Units: 3*
- • BUS 601 - Leadership and Communication in Organizations *Units: 3*
- • BUS 602 - Business Analytics for Managers *Units: 3*
- • BUS 603 - Managing Complex Issues in Global Context *Units: 3 ; G.E./G.R. Area: UWSR*
- • BUS 608 - Operations and Supply Chain Management *Units: 3*
- • BUS 609 - Negotiation and Conflict Resolution *Units: 3*
- • BUS 693 - Strategic Management Capstone (Project) *Units: 3*
- • MGMT 610 - Strategic Human Resources Management *Units: 3*
- • MGMT 612 - Strategic Compensation and Reward Systems *Units: 3*
- • MGMT 614 - Talent Management *Units: 3*
- • MGMT 616 - People Analytics *Units: 3*
- • MGMT 618 - Human Resources and the Law *Units: 3*
- • MGMT 620 - Leading Teams and Managing Creativity *Units: 3*
- • MGMT 622 - Managing the Global Workplace *Units: 3*
- • MGMT 624 - Special Topics in Human Resource Management and Organizational Behavior

Units: 3

- • MGMT 650 - Global and Sustainable Supply Chains *Units: 3*
- • MGMT 652 - Service Operations Management *Units: 3*
- • MGMT 654 - Enterprise Planning and Control *Units: 3*
- • MGMT 656 - Quality and Lean Management *Units: 3*
- • MGMT 658 - Project Management *Units: 3*
- • MGMT 660 - Healthcare Operations Management *Units: 3*
- • MGMT 662 - Operations Analytics *Units: 3*
- • MGMT 670 - Strategic Industry and Competitive Analysis *Units: 3*
- • MGMT 675 - Innovation Strategy *Units: 3*
- • MGMT 676 - Global Strategy *Units: 3*
- • MGMT 677 - International Field Immersion *Units: 3*
- • MGMT 678 - Design Thinking for Leaders *Units: 3*
- • MGMT 680 - Sustainability Strategy *Units: 3*
- • MGMT 685 - Non-Market Strategy *Units: 3*
- • MGMT 688 - Business Opportunity Consulting Project *Units: 3*
- • MGMT 690 - Independent Study *Units: 1-4*
- • MGMT 697 - Issues in Management *Units: 3*
- • MGMT 698 - Internship *Units: 1-3*

Note: Please see Errata page for corrections to BAN course content.

Business Administration, B.S.: Operations and Supply Chain Management Concentration (Available Online)

Business Administration, B.S. Program (120 units)

Program Description

The College of Business and Economics, which offers the Bachelor of Science in Business Administration (B.S.B.A.) program, is committed to providing life-changing, quality business education to prepare students from diverse backgrounds to become successful business professionals and leaders. The B.S.B.A. program imparts students with the knowledge and skills necessary to understand the changing global business environment and to prepare students for success in their professional careers.

The B.S.B.A. major program is structured around a set of core courses enabling students to develop general business perspective and skills. Students are required to choose an area of specialization, i.e., concentration, corresponding to their desired career path. In addition, the program allows students flexibility to customize their specialization by choosing business elective courses. These electives may be chosen to further strengthen their preparation in their chosen concentration.

The undergraduate and the graduate programs in the College of Business and Economics are accredited by the Association to Advance Collegiate Schools of Business International (AACSB).

Program Learning Outcomes

Students graduating with a Bachelor of Science in Business Administration will be able to:

- Recognize and integrate foundation knowledge across functional areas.
- Apply critical thinking skills to solve business problems.
- Understand and apply quantitative methods and tools in evaluating business problems and making effective business decisions.
- Apply technology to analyze data and provide solutions to business problems.
- Apply effective oral communication skills in a diverse and global environment.
- Apply effective written communication skills in a diverse and global environment.
- Apply effective team skills to work in a diverse and global environment.
- Identify and assess ethical issues and properly articulate ethical decisions.

Expiration of Courses

Upper division major/concentration requirement courses will expire ten years after completion of the term in which they are earned. Expired courses cannot be used to fulfill degree requirements and must be replaced by current credits. Requests for waivers of the ten-year limit for extenuating circumstances, other than mere failure to register, are made to the department chair in which the course resides and the director of undergraduate programs.

Transfer of Courses

Upper division courses will only be considered for equivalency or transfer credit if they are from AACSB accredited institutions. Exceptions will be made for programs that have current and signed agreements with the College of Business and Economics.

Degree Requirements

The B.S. degree requires a total of 120 units. In addition to General Education courses and other graduation requirements, the Business Administration major requires three sets of courses: (I) lower

division core courses, (II) upper division core courses, and (III) courses to fulfill concentration requirements.

Degree Requirements Unit-Outline

- A baccalaureate of science degree requires a total of 120 units:
 - The major requirements consists of 75 units;
 - General Education (GE) & Graduation Requirements (GR) consists of 57 units;
 - Free Electives may consist of 0 units (*actual number of free elective units may depend on GE/GR units*).

Note: It may be possible to double-count units within the graduation requirements or that a course may satisfy both a graduation requirement and a major requirement. Students should contact their program and AACE advisors for information.

Business Administration Major Requirements (75 units)

Note: Please see the Errata pages for corrections made to the major requirements effective for all concentrations.

Lower Division Core Courses

The following 18 units of lower-division coursework are required:

- ACCT 210 - Introduction to Financial Accounting Units: 3
- ACCT 215 - Introduction to Managerial Accounting Units: 3
- ECON 200 - Principles of Microeconomics Units: 3 ; G.E./G.R. Area: D1-3; Social Justice
- ECON 205 - Principles of Macroeconomics Units: 3 ; G.E./G.R. Area: D1-3
- MATH 180 - Mathematics for Business with Calculus Units: 3 ; G.E./G.R. Area: B4
- STAT 110 - Elements of Statistics for Business and Economics Units: 3

Upper Division Core Courses

The following 27 units of upper-division coursework is required:

- BUS 310 - Organizational Behavior Units: 3
- BUS 325 - Marketing Principles Units: 3
- BUS 330 - Financial Management Units: 3
- BUS 335 - Communications in Team Building Units: 3
- BUS 360 - Operations Management Units: 3
- BUS 499 - Seminar in Strategic Business Management Units: 3
- ECON 380 - Managerial Economics and Business Strategy Units: 3 ; G.E./G.R. Area: B6; Sustainability
- MGMT 350 - Decision Science Units: 3 ; G.E./G.R. Area: B6

Plus, choose one (1) course from the following:

- **BUS 385 - International Business** *Units: 3 OR*
- **ECON 385 - Global Economic Analysis** *Units: 3 Recommended for Business Economics concentration students*

Concentration Requirements

Students must select one (1) of the following concentrations for 30 units:

- Business Administration, B.S.: Accounting Concentration
- Business Administration, B.S.: Business Economics Concentration
- Business Administration, B.S.: Entrepreneurship Concentration
- Business Administration, B.S.: Finance Concentration (Available Online)
- Business Administration, B.S.: General Management Concentration (Available Online)
- Business Administration, B.S.: Human Resources Management & Organizational Behavior Concentration
- Business Administration, B.S.: Information Technology Management Concentration (Available Online)
- Business Administration, B.S.: Marketing Management Concentration
- Business Administration, B.S.: Operations and Supply Chain Management Concentration (Available Online)

Operations and Supply Chain Management Concentration

The coursework for the Operations and Supply Chain Management concentration develops student competence in the conceptual, managerial, and analytical tools required for careers in service and manufacturing operations. Students obtain knowledge and skills necessary to manage organization's resources and processes in order to increase productivity, improve quality, reduce cost, and satisfy customer needs. The range of concentration topics includes service operations, quality and lean management, global and sustainable supply chains, enterprise planning and control, project management, emerging technologies and analytics.

Required Courses

The following 18 units are required:

- **BUS 220 - Legal Environment of Business** *Units: 3 ; G.E./G.R. Area: D1-3; Social Justice*
- **BUS 320 - Business and Professional Ethics** *Units: 3*
- **BUS 340 - Information Technology Management** *Units: 3*
- **BUS 370 - Business, Government and Society** *Units: 3*
- **MGMT 362 - Service Management** *Units: 3*
- **MGMT 364 - Global Supply Chain Management** *Units: 3*

Elective Courses

Select four (4) courses for 12 units from the following list:

- **MGMT 365 - Enterprise Resource Planning and Control** *Units: 3*

- MGMT 366 - Logistics Management *Units: 3*
- MGMT 368 - Quality and Process Improvement *Units: 3*
- MGMT 369 - Supply Management and E-Commerce *Units: 3*
- MGMT 450 - Project Management *Units: 3*
- MGMT 455 - Supply Chain Data Analytics *Units: 3*
- MGMT 460 - Healthcare Operations Management *Units: 3*
- MGMT 465 - Emerging Technologies in Operations *Units: 3*

Other Undergraduate Degree Requirements

In addition to major requirements, every student must also complete the University's baccalaureate requirements for graduation, which are described in the Requirements, Exams & Testing chapter of this catalog.

Department Courses Listed by Course Type

Management Courses

Department of Management

Go to information for this department.

Courses

Information Technology Management

- ITM 330 - Business Applications Programming *Units: 3*
- ITM 331 - Database Management Systems *Units: 3*
- ITM 332 - Business Data Communications *Units: 3*
- ITM 336 - Information Systems Development and Management *Units: 3*
- ITM 338 - E-Business Technology and Management *Units: 3*
- ITM 398 - Internship *Units: 1-3*
- ITM 440 - Business Intelligence Systems *Units: 3*
- ITM 442 - Healthcare Information Systems *Units: 3*
- ITM 446 - Information Security *Units: 3*
- ITM 448 - Information Systems Analytics *Units: 3*
- ITM 449 - Advanced Topics in Information Technology *Units: 3*
- ITM 490 - Independent Study *Units: 1-4*
- ITM 497 - Issues in Information Technology Management *Units: 3*

Information Technology Management: Graduate

- ITM 690 - Independent Study *Units: 1-4*
- ITM 697 - Issues in Information Technology Management *Units: 3*
- ITM 698 - Internship *Units: 1-3*

Management

- BUS 110 - Fundamentals of Information Systems and Applications *Units: 3*
- BUS 310 - Organizational Behavior *Units: 3*

- BUS 320 - Business and Professional Ethics *Units: 3*
- BUS 340 - Information Technology Management *Units: 3*
- BUS 360 - Operations Management *Units: 3*
- BUS 370 - Business, Government and Society *Units: 3*
- BUS 385 - International Business *Units: 3*
- BUS 499 - Seminar in Strategic Business Management *Units: 3*
- MGMT 311 - Managing Diversity in the 21st Century Workplace *Units: 3*
- MGMT 312 - Human Resources Management *Units: 3*
- MGMT 314 - Leadership and Management *Units: 3*
- MGMT 316 - Training and Development *Units: 3*
- MGMT 318 - Employee Relations and Employment Law *Units: 3*
- MGMT 320 - Negotiation and Conflict Management *Units: 3*
- MGMT 350 - Decision Science *Units: 3 ; G.E./G.R. Area: B6*
- MGMT 362 - Service Management *Units: 3*
- MGMT 364 - Global Supply Chain Management *Units: 3*
- MGMT 365 - Enterprise Resource Planning and Control *Units: 3*
- MGMT 366 - Logistics Management *Units: 3*
- MGMT 368 - Quality and Process Improvement *Units: 3*
- MGMT 369 - Supply Management and E-Commerce *Units: 3*
- MGMT 398 - Internship *Units: 1-3*
- MGMT 400 - Seminar on Special Topics in Human Resource Management and Organizational

Behavior *Units: 3*

- MGMT 402 - Managing the Global Workplace *Units: 3*
- MGMT 404 - Staffing and Talent Management *Units: 3*
- MGMT 406 - Compensation and Reward Systems *Units: 3*
- MGMT 408 - HR Analytics *Units: 3*
- MGMT 450 - Project Management *Units: 3*
- MGMT 455 - Supply Chain Data Analytics *Units: 3*
- MGMT 460 - Healthcare Operations Management *Units: 3*
- MGMT 465 - Emerging Technologies in Operations *Units: 3*
- MGMT 490 - Independent Study *Units: 1-4*
- MGMT 497 - Issues in Management *Units: 3*

Management: Graduate

- BAN 601 - Technology Fundamentals for Analytics *Units: 3*
- BAN 602 - Quantitative Fundamentals for Analytics *Units: 3*
- BAN 610 - Database Management and Applications *Units: 3*
- BAN 612 - Data Analytics *Units: 3*
- BAN 620 - Data Mining *Units: 3*
- BAN 622 - Data Warehousing and Business Intelligence *Units: 3*
- BAN 630 - Optimization Methods for Analytics *Units: 3*
- BAN 632 - Big Data Technology and Applications *Units: 3*
- BAN 660 - Advanced Topics in Big Data *Units: 3*
- BAN 670 - Advanced Topics in Analytics *Units: 3*
- BAN 671 - Data Analytics with R *Units: 3*
- BAN 672 - Data Analytics with SAS *Units: 3*
- BAN 673 - Time Series Analytics *Units: 3*
- BAN 674 - Machine Learning for Business Analytics *Units: 3*
- BAN 675 - Text Mining and Social Media Analytics *Units: 3*
- BAN 676 - Deep Learning for Business Applications *Units: 3*
- BAN 693 - Business Analytics Capstone Project *Units: 3*

- • BUS 601 - Leadership and Communication in Organizations *Units: 3*
- • BUS 602 - Business Analytics for Managers *Units: 3*
- • BUS 603 - Managing Complex Issues in Global Context *Units: 3 ; G.E./G.R. Area: UWSR*
- • BUS 608 - Operations and Supply Chain Management *Units: 3*
- • BUS 609 - Negotiation and Conflict Resolution *Units: 3*
- • BUS 693 - Strategic Management Capstone (Project) *Units: 3*
- • MGMT 610 - Strategic Human Resources Management *Units: 3*
- • MGMT 612 - Strategic Compensation and Reward Systems *Units: 3*
- • MGMT 614 - Talent Management *Units: 3*
- • MGMT 616 - People Analytics *Units: 3*
- • MGMT 618 - Human Resources and the Law *Units: 3*
- • MGMT 620 - Leading Teams and Managing Creativity *Units: 3*
- • MGMT 622 - Managing the Global Workplace *Units: 3*
- • MGMT 624 - Special Topics in Human Resource Management and Organizational Behavior
Units: 3
- • MGMT 650 - Global and Sustainable Supply Chains *Units: 3*
- • MGMT 652 - Service Operations Management *Units: 3*
- • MGMT 654 - Enterprise Planning and Control *Units: 3*
- • MGMT 656 - Quality and Lean Management *Units: 3*
- • MGMT 658 - Project Management *Units: 3*
- • MGMT 660 - Healthcare Operations Management *Units: 3*
- • MGMT 662 - Operations Analytics *Units: 3*
- • MGMT 670 - Strategic Industry and Competitive Analysis *Units: 3*
- • MGMT 675 - Innovation Strategy *Units: 3*
- • MGMT 676 - Global Strategy *Units: 3*
- • MGMT 677 - International Field Immersion *Units: 3*
- • MGMT 678 - Design Thinking for Leaders *Units: 3*
- • MGMT 680 - Sustainability Strategy *Units: 3*
- • MGMT 685 - Non-Market Strategy *Units: 3*
- • MGMT 688 - Business Opportunity Consulting Project *Units: 3*
- • MGMT 690 - Independent Study *Units: 1-4*
- • MGMT 697 - Issues in Management *Units: 3*
- • MGMT 698 - Internship *Units: 1-3*

Note: Please see Errata page for corrections to BAN course content.

Master

Business Administration, M.B.A.: Analytics for Managers Concentration

Business Administration, M.B.A. Program

Mission

CBE provides life-changing, quality business education to prepare students from diverse backgrounds to become successful business professionals and leaders.

Vision and Values

We aspire to be a leading business school known for making a difference in the lives of our students and for our impact on the world. In support of our mission, we value:

- Ethical behavior and personal integrity
- Collegiality and mutual respect
- Collaboration for learning, scholarship, and community engagement
- Social and environmental responsibility
- Inclusive learning environment for a diverse student population
- Innovative thinking and a global mindset

All CBE programs are accredited by AACSB International - The Association to Advance Collegiate Schools of Business.

The College of Business and Economics offers the following master's degrees:

Master of Business Administration

M.B.A. students must select one of the following concentrations to fulfill the degree:

Analytics for Managers • Finance • General Business • Global Innovator • Human Resources and Organizational Behavior • Marketing Management • Operations and Supply Chain Management • Strategy and Innovation

Master of Science in Business Analytics

Master of Science in Economics

Program Description

The M.B.A. program supports students' career advancement by preparing them for positions of leadership in an increasingly diverse and globally competitive economy. The program is centered on the rigorous knowledge of the basic functional areas of business, an appreciation of management challenges in a global context, and opportunities to develop students' interpersonal and executive leadership skills. It also enables students to deepen and broaden their knowledge and skills through elective courses in an area of concentration. The program offers a range of formats to cater to the needs of full and part time students and students seeking an executive style MBA.

Career Opportunities

There is a strong growth in opportunities for management careers in both the general and the functional areas represented in the program's concentrations. The MBA program prepares graduates with strong foundation in general management knowledge and skills and gives them an extra edge in concentration areas that are growing in demand. Among the strong careers for those with MBA include Financial Manager, Health Services Manager, High-End Management Consultant, Human Resources Manager, Investment Banker, Investment Fund Manager, Marketing Manager, Marketing Researcher, Sales Manager, Operations and Supply Chain Manager, and Upper Management and Executive Leadership. The growing career opportunities for Finance, Marketing, HR, Operations, and Strategy validate the strength and the value of the CSUEB MBA program.

Admission

The M.B.A. is open to students who hold a baccalaureate degree from an accredited college or university. Each applicant is evaluated on the basis of past academic performance as reflected in undergraduate grade point average and subsequent coursework; and results of the Graduate Management Admissions Test (GMAT) in verbal, quantitative, and the "Index Score" that involves the total GMAT score, $\text{Index Score} = (\text{Upper Division GPA} \times 200) + \text{Total GMAT}$. Admission to the program is selective. The average GPA and GMAT score of applicants admitted to the program varies from year to year. For last year's admitted students profile, please visit the CBE Graduate Student Success and Services Office. GRE score, if provided, is accepted in place of GMAT. GMAT may be waived for applicants with five years or more work experience.

Proficiencies

All Conditionally Classified M.B.A. students must fulfill the University Writing Skills Requirement (UWSR) to achieve "Classified Graduate" status. The Writing Skills Requirement could be met as an undergraduate or graduate student at one of the CSU system campuses, with a score of 4.5 or better on the GMAT essay, by passing the Writing Skills Test (WST) or through coursework. Information about the Writing Skills Test and the courses can be found on the Testing Office website. The Website contains information on test dates, registration procedures and fees. Further information can be obtained from the Testing Office. If students have not satisfied the UWSR before they begin their graduate work, they must either take the WST or enroll in a first tier course by the end of their first semester in the program.

The MBA program is designed to provide essential business knowledge to students without assuming prior business background. Therefore no specific prerequisite courses are required, but proficiency in math and statistics is expected.

Student Standing and Progress Toward the Degree

There are three categories of student status which reflect student progress toward the degree: "Conditionally Classified Graduate," "Classified Graduate," and "Advancement to Candidacy."

- Students achieve "Conditionally Classified Graduate" status when they have been admitted to the MBA degree program, but have not yet completed the University Writing Skills Requirement.
- Students achieve "Classified Graduate" status when they have satisfactorily completed the University Writing Skills Requirement.
- Students are Advanced to Candidacy when they have completed the 42 semester units meeting the following criteria:
 - All have a course grade of "C" or better.
 - Complete a minimum of 30 units in residence after admission to the program.
 - Have a combined 3.0 grade point average (minimum) in all units taken to satisfy the requirements of the student's degree program.
 - Have no more than 12 units for extension and/or transfer credit (any extension and/or transfer credit must be approved by the Program Director) and/or coursework taken in "Unclassified Post-baccalaureate" status.
 - All units earned within the five years immediately preceding the completion of the requirements for the degree.
 - Have completed a satisfactory program of study as determined by the College of Business and Economics and the university.
- To be eligible for the M.B.A. a student must have been Advanced to Candidacy (see Graduate Degree Information chapter of the catalog)

Note: Students who fail to maintain progress by falling below a 3.0 GPA in their graduate courses for two or more consecutive semesters will be academically disqualified from the university.

Program Learning Outcomes

Students graduating with an M.B.A. from Cal State East Bay will be able to:

- Identify global business opportunities, analyze global business challenges, and develop business strategies.
- Demonstrate leadership and teamwork skills.
- Apply advanced written communication skills.
- Apply advanced oral communication skills.
- Demonstrate cross-cultural awareness and sensitivity in their interpersonal and group communication.
- Perform quantitative analyses and apply advanced technological tools to solve complex business problems.
- Analyze and integrate knowledge across disciplines to make managerial decisions to reach solutions to complex business problems.
- Recognize and analyze ethical issues in decision making.

Business Administration Degree Requirements (42 units)

Core Courses

The following 27 core units are required for all M.B.A. students:

- BUS 601 - Leadership and Communication in Organizations *Units: 3*
- BUS 602 - Business Analytics for Managers *Units: 3*
- BUS 603 - Managing Complex Issues in Global Context *Units: 3 ; G.E./G.R. Area:*
UWSR
- BUS 604 - Financial Accounting *Units: 3*
- BUS 605 - Corporate Financial Management *Units: 3*
- BUS 606 - Managerial Economics *Units: 3*
- BUS 607 - Marketing Management *Units: 3*
- BUS 608 - Operations and Supply Chain Management *Units: 3*
- BUS 609 - Negotiation and Conflict Resolution *Units: 3*

Concentrations

Students must select one (1) of the following 12-unit concentrations:

- Business Administration, M.B.A.: Analytics for Managers Concentration
- Business Administration, M.B.A.: Finance Concentration
- Business Administration, M.B.A.: General Business Concentration
- Business Administration, M.B.A.: Global Innovators Concentration (Self Support only)
- Business Administration, M.B.A.: Human Resources Management and Organizational Behavior Concentration
- Business Administration, M.B.A.: Marketing Management Concentration

- Business Administration, M.B.A.: Operations and Supply Chain Management Concentration
- Business Administration, M.B.A.: Strategy & Innovation Concentration

Capstone Requirement

The following capstone is required for 3 units to complete the degree:

- BUS 693 - Strategic Management Capstone (Project) *Units: 3*

Analytics for Managers Concentration

Prerequisite Requirement

BUS 602 must be completed before taking any BAN required or elective course.

- BUS 602 - Business Analytics for Managers *Units: 3*

Required Courses

Select at least two (2) courses, for 6 units, from the following:

- BAN 610 - Database Management and Applications *Units: 3*
- BAN 612 - Data Analytics *Units: 3*
- BAN 620 - Data Mining *Units: 3*
- BAN 622 - Data Warehousing and Business Intelligence *Units: 3*
- BAN 630 - Optimization Methods for Analytics *Units: 3*

Plus, select at least two (2) courses, for 6 units, from the following:

- BAN 660 - Advanced Topics in Big Data *Units: 3*
- BAN 670 - Advanced Topics in Analytics *Units: 3*
- MGMT 616 - People Analytics *Units: 3*
- MGMT 654 - Enterprise Planning and Control *Units: 3*
- MGMT 658 - Project Management *Units: 3*
- MGMT 662 - Operations Analytics *Units: 3*
- MKTG 612 - Marketing Analytics *Units: 3*

Other Graduate & Post-Baccalaureate Degree Requirements

In addition to departmental requirements, every student must also satisfy the University requirements for graduation as described throughout this catalog. These include the 70% unit residence requirement; the five-year rule on currency of subject matter; the minimum number of units in 600-level courses; the "C" minimum grade for each graduate course; the 3.00 cumulative grade point average; and the University Writing Skills Requirement.

Note: For information on meeting the University Writing Skills Requirement, see the Testing Office website at www.csueastbay.edu/testing or call (510) 885-3661.

Department Courses Listed by Course Type

Management Courses

Department of Management

Go to information for this department.

Courses

Information Technology Management

- ITM 330 - Business Applications Programming *Units: 3*
- ITM 331 - Database Management Systems *Units: 3*
- ITM 332 - Business Data Communications *Units: 3*
- ITM 336 - Information Systems Development and Management *Units: 3*
- ITM 338 - E-Business Technology and Management *Units: 3*
- ITM 398 - Internship *Units: 1-3*
- ITM 440 - Business Intelligence Systems *Units: 3*
- ITM 442 - Healthcare Information Systems *Units: 3*
- ITM 446 - Information Security *Units: 3*
- ITM 448 - Information Systems Analytics *Units: 3*
- ITM 449 - Advanced Topics in Information Technology *Units: 3*
- ITM 490 - Independent Study *Units: 1-4*
- ITM 497 - Issues in Information Technology Management *Units: 3*

Information Technology Management: Graduate

- ITM 690 - Independent Study *Units: 1-4*
- ITM 697 - Issues in Information Technology Management *Units: 3*
- ITM 698 - Internship *Units: 1-3*

Management

- BUS 110 - Fundamentals of Information Systems and Applications *Units: 3*
- BUS 310 - Organizational Behavior *Units: 3*
- BUS 320 - Business and Professional Ethics *Units: 3*
- BUS 340 - Information Technology Management *Units: 3*
- BUS 360 - Operations Management *Units: 3*
- BUS 370 - Business, Government and Society *Units: 3*
- BUS 385 - International Business *Units: 3*
- BUS 499 - Seminar in Strategic Business Management *Units: 3*
- MGMT 311 - Managing Diversity in the 21st Century Workplace *Units: 3*
- MGMT 312 - Human Resources Management *Units: 3*
- MGMT 314 - Leadership and Management *Units: 3*
- MGMT 316 - Training and Development *Units: 3*
- MGMT 318 - Employee Relations and Employment Law *Units: 3*
- MGMT 320 - Negotiation and Conflict Management *Units: 3*
- MGMT 350 - Decision Science *Units: 3 ; G.E./G.R. Area: B6*
- MGMT 362 - Service Management *Units: 3*
- MGMT 364 - Global Supply Chain Management *Units: 3*
- MGMT 365 - Enterprise Resource Planning and Control *Units: 3*

- MGMT 366 - Logistics Management *Units: 3*
- MGMT 368 - Quality and Process Improvement *Units: 3*
- MGMT 369 - Supply Management and E-Commerce *Units: 3*
- MGMT 398 - Internship *Units: 1-3*
- MGMT 400 - Seminar on Special Topics in Human Resource Management and Organizational Behavior *Units: 3*

Behavior *Units: 3*

- MGMT 402 - Managing the Global Workplace *Units: 3*
- MGMT 404 - Staffing and Talent Management *Units: 3*
- MGMT 406 - Compensation and Reward Systems *Units: 3*
- MGMT 408 - HR Analytics *Units: 3*
- MGMT 450 - Project Management *Units: 3*
- MGMT 455 - Supply Chain Data Analytics *Units: 3*
- MGMT 460 - Healthcare Operations Management *Units: 3*
- MGMT 465 - Emerging Technologies in Operations *Units: 3*
- MGMT 490 - Independent Study *Units: 1-4*
- MGMT 497 - Issues in Management *Units: 3*

Management: Graduate

- BAN 601 - Technology Fundamentals for Analytics *Units: 3*
- BAN 602 - Quantitative Fundamentals for Analytics *Units: 3*
- BAN 610 - Database Management and Applications *Units: 3*
- BAN 612 - Data Analytics *Units: 3*
- BAN 620 - Data Mining *Units: 3*
- BAN 622 - Data Warehousing and Business Intelligence *Units: 3*
- BAN 630 - Optimization Methods for Analytics *Units: 3*
- BAN 632 - Big Data Technology and Applications *Units: 3*
- BAN 660 - Advanced Topics in Big Data *Units: 3*
- BAN 670 - Advanced Topics in Analytics *Units: 3*
- BAN 671 - Data Analytics with R *Units: 3*
- BAN 672 - Data Analytics with SAS *Units: 3*
- BAN 673 - Time Series Analytics *Units: 3*
- BAN 674 - Machine Learning for Business Analytics *Units: 3*
- BAN 675 - Text Mining and Social Media Analytics *Units: 3*
- BAN 676 - Deep Learning for Business Applications *Units: 3*
- BAN 693 - Business Analytics Capstone Project *Units: 3*
- BUS 601 - Leadership and Communication in Organizations *Units: 3*
- BUS 602 - Business Analytics for Managers *Units: 3*
- BUS 603 - Managing Complex Issues in Global Context *Units: 3 ; G.E./G.R. Area: UWSR*
- BUS 608 - Operations and Supply Chain Management *Units: 3*
- BUS 609 - Negotiation and Conflict Resolution *Units: 3*
- BUS 693 - Strategic Management Capstone (Project) *Units: 3*
- MGMT 610 - Strategic Human Resources Management *Units: 3*
- MGMT 612 - Strategic Compensation and Reward Systems *Units: 3*
- MGMT 614 - Talent Management *Units: 3*
- MGMT 616 - People Analytics *Units: 3*
- MGMT 618 - Human Resources and the Law *Units: 3*
- MGMT 620 - Leading Teams and Managing Creativity *Units: 3*
- MGMT 622 - Managing the Global Workplace *Units: 3*
- MGMT 624 - Special Topics in Human Resource Management and Organizational Behavior *Units: 3*
- MGMT 650 - Global and Sustainable Supply Chains *Units: 3*

- MGMT 652 - Service Operations Management *Units: 3*
- MGMT 654 - Enterprise Planning and Control *Units: 3*
- MGMT 656 - Quality and Lean Management *Units: 3*
- MGMT 658 - Project Management *Units: 3*
- MGMT 660 - Healthcare Operations Management *Units: 3*
- MGMT 662 - Operations Analytics *Units: 3*
- MGMT 670 - Strategic Industry and Competitive Analysis *Units: 3*
- MGMT 675 - Innovation Strategy *Units: 3*
- MGMT 676 - Global Strategy *Units: 3*
- MGMT 677 - International Field Immersion *Units: 3*
- MGMT 678 - Design Thinking for Leaders *Units: 3*
- MGMT 680 - Sustainability Strategy *Units: 3*
- MGMT 685 - Non-Market Strategy *Units: 3*
- MGMT 688 - Business Opportunity Consulting Project *Units: 3*
- MGMT 690 - Independent Study *Units: 1-4*
- MGMT 697 - Issues in Management *Units: 3*
- MGMT 698 - Internship *Units: 1-3*

Note: Please see Errata page for corrections to BAN course content.

Business Administration, M.B.A.: General Business Concentration

Business Administration, M.B.A. Program

Mission

CBE provides life-changing, quality business education to prepare students from diverse backgrounds to become successful business professionals and leaders.

Vision and Values

We aspire to be a leading business school known for making a difference in the lives of our students and for our impact on the world. In support of our mission, we value:

- Ethical behavior and personal integrity
- Collegiality and mutual respect
- Collaboration for learning, scholarship, and community engagement
- Social and environmental responsibility
- Inclusive learning environment for a diverse student population
- Innovative thinking and a global mindset

All CBE programs are accredited by AACSB International - The Association to Advance Collegiate Schools of Business.

The College of Business and Economics offers the following master's degrees:

Master of Business Administration

M.B.A. students must select one of the following concentrations to fulfill the degree:

Analytics for Managers • Finance • General Business • Global Innovator • Human Resources and Organizational Behavior • Marketing Management • Operations and Supply Chain Management • Strategy and Innovation

Master of Science in Business Analytics

Master of Science in Economics

Program Description

The M.B.A. program supports students' career advancement by preparing them for positions of leadership in an increasingly diverse and globally competitive economy. The program is centered on the rigorous knowledge of the basic functional areas of business, an appreciation of management challenges in a global context, and opportunities to develop students' interpersonal and executive leadership skills. It also enables students to deepen and broaden their knowledge and skills through elective courses in an area of concentration. The program offers a range of formats to cater to the needs of full and part time students and students seeking an executive style MBA.

Career Opportunities

There is a strong growth in opportunities for management careers in both the general and the functional areas represented in the program's concentrations. The MBA program prepares graduates with strong foundation in general management knowledge and skills and gives them an extra edge in concentration areas that are growing in demand. Among the strong careers for those with MBA include Financial Manager, Health Services Manager, High-End Management Consultant, Human Resources Manager, Investment Banker, Investment Fund Manager, Marketing Manager, Marketing Researcher, Sales Manager, Operations and Supply Chain Manager, and Upper Management and Executive Leadership. The growing career opportunities for Finance, Marketing, HR, Operations, and Strategy validate the strength and the value of the CSUEB MBA program.

Admission

The M.B.A. is open to students who hold a baccalaureate degree from an accredited college or university. Each applicant is evaluated on the basis of past academic performance as reflected in undergraduate grade point average and subsequent coursework; and results of the Graduate Management Admissions Test (GMAT) in verbal, quantitative, and the "Index Score" that involves the total GMAT score, $\text{Index Score} = (\text{Upper Division GPA} \times 200) + \text{Total GMAT}$. Admission to the program is selective. The average GPA and GMAT score of applicants admitted to the program varies from year to year. For last year's admitted students profile, please visit the CBE Graduate Student Success and Services Office. GRE score, if provided, is accepted in place of GMAT. GMAT may be waived for applicants with five years or more work experience.

Proficiencies

All Conditionally Classified M.B.A. students must fulfill the University Writing Skills Requirement (UWSR) to achieve "Classified Graduate" status. The Writing Skills Requirement could be met as an undergraduate or graduate student at one of the CSU system campuses, with a score of 4.5 or better on the GMAT essay, by passing the Writing Skills Test (WST) or through coursework. Information about the Writing Skills Test and the courses can be found on the Testing Office website. The Website contains

information on test dates, registration procedures and fees. Further information can be obtained from the Testing Office. If students have not satisfied the UWSR before they begin their graduate work, they must either take the WST or enroll in a first tier course by the end of their first semester in the program.

The MBA program is designed to provide essential business knowledge to students without assuming prior business background. Therefore no specific prerequisite courses are required, but proficiency in math and statistics is expected.

Student Standing and Progress Toward the Degree

There are three categories of student status which reflect student progress toward the degree: "Conditionally Classified Graduate," "Classified Graduate," and "Advancement to Candidacy."

- Students achieve "Conditionally Classified Graduate" status when they have been admitted to the MBA degree program, but have not yet completed the University Writing Skills Requirement.
 - Students achieve "Classified Graduate" status when they have satisfactorily completed the University Writing Skills Requirement.
 - Students are Advanced to Candidacy when they have completed the 42 semester units meeting the following criteria:
 - All have a course grade of "C" or better.
 - Complete a minimum of 30 units in residence after admission to the program.
 - Have a combined 3.0 grade point average (minimum) in all units taken to satisfy the requirements of the student's degree program.
 - Have no more than 12 units for extension and/or transfer credit (any extension and/or transfer credit must be approved by the Program Director) and/or coursework taken in "Unclassified Post-baccalaureate" status.
 - All units earned within the five years immediately preceding the completion of the requirements for the degree.
 - Have completed a satisfactory program of study as determined by the College of Business and Economics and the university.
 - To be eligible for the M.B.A. a student must have been Advanced to Candidacy (see Graduate Degree Information chapter of the catalog)
- Note: Students who fail to maintain progress by falling below a 3.0 GPA in their graduate courses for two or more consecutive semesters will be academically disqualified from the university.*

Program Learning Outcomes

Students graduating with an M.B.A. from Cal State East Bay will be able to:

- Identify global business opportunities, analyze global business challenges, and develop business strategies.
- Demonstrate leadership and teamwork skills.
- Apply advanced written communication skills.
- Apply advanced oral communication skills.
- Demonstrate cross-cultural awareness and sensitivity in their interpersonal and group communication.
- Perform quantitative analyses and apply advanced technological tools to solve complex business problems.
- Analyze and integrate knowledge across disciplines to make managerial decisions to reach solutions to complex business problems.
- Recognize and analyze ethical issues in decision making.

Business Administration Degree Requirements (42 units)

Core Courses

The following 27 core units are required for all M.B.A. students:

- BUS 601 - Leadership and Communication in Organizations *Units: 3*
- BUS 602 - Business Analytics for Managers *Units: 3*
- BUS 603 - Managing Complex Issues in Global Context *Units: 3 ; G.E./G.R. Area: UWSR*
- BUS 604 - Financial Accounting *Units: 3*
- BUS 605 - Corporate Financial Management *Units: 3*
- BUS 606 - Managerial Economics *Units: 3*
- BUS 607 - Marketing Management *Units: 3*
- BUS 608 - Operations and Supply Chain Management *Units: 3*
- BUS 609 - Negotiation and Conflict Resolution *Units: 3*

Concentrations

Students must select one (1) of the following 12-unit concentrations:

- Business Administration, M.B.A.: Analytics for Managers Concentration
- Business Administration, M.B.A.: Finance Concentration
- Business Administration, M.B.A.: General Business Concentration
- Business Administration, M.B.A.: Global Innovators Concentration (Self Support only)
- Business Administration, M.B.A.: Human Resources Management and Organizational Behavior Concentration
- Business Administration, M.B.A.: Marketing Management Concentration
- Business Administration, M.B.A.: Operations and Supply Chain Management Concentration
- Business Administration, M.B.A.: Strategy & Innovation Concentration

Capstone Requirement

The following capstone is required for 3 units to complete the degree:

- BUS 693 - Strategic Management Capstone (Project) *Units: 3*

General Business Concentration

See Errata for corrections to this content.

Required Courses

Students select 12 units of 600 level electives from BAN, BUS, ECON, FIN, MGMT, and MKTG **excluding** BAN 601, BAN 602, and BUS 601 through BUS 610. Courses must be drawn from at least three different subject areas (based on course prefixes).

Other Graduate & Post-Baccalaureate Degree Requirements

In addition to departmental requirements, every student must also satisfy the University requirements for graduation as described throughout this catalog. These include the 70% unit residence requirement; the five-year rule on currency of subject matter; the minimum number of units in 600-level courses; the "C" minimum grade for each graduate course; the 3.00 cumulative grade point average; and the University Writing Skills Requirement.

Note: For information on meeting the University Writing Skills Requirement, see the Testing Office website at www.csueastbay.edu/testing or call (510) 885-3661.

Department Courses Listed by Course Type

Management Courses

Department of Management

Go to information for this department.

Courses

Information Technology Management

- ITM 330 - Business Applications Programming *Units: 3*
- ITM 331 - Database Management Systems *Units: 3*
- ITM 332 - Business Data Communications *Units: 3*
- ITM 336 - Information Systems Development and Management *Units: 3*
- ITM 338 - E-Business Technology and Management *Units: 3*
- ITM 398 - Internship *Units: 1-3*
- ITM 440 - Business Intelligence Systems *Units: 3*
- ITM 442 - Healthcare Information Systems *Units: 3*
- ITM 446 - Information Security *Units: 3*
- ITM 448 - Information Systems Analytics *Units: 3*
- ITM 449 - Advanced Topics in Information Technology *Units: 3*
- ITM 490 - Independent Study *Units: 1-4*
- ITM 497 - Issues in Information Technology Management *Units: 3*

Information Technology Management: Graduate

- ITM 690 - Independent Study *Units: 1-4*
- ITM 697 - Issues in Information Technology Management *Units: 3*
- ITM 698 - Internship *Units: 1-3*

Management

- BUS 110 - Fundamentals of Information Systems and Applications *Units: 3*
- BUS 310 - Organizational Behavior *Units: 3*
- BUS 320 - Business and Professional Ethics *Units: 3*
- BUS 340 - Information Technology Management *Units: 3*
- BUS 360 - Operations Management *Units: 3*
- BUS 370 - Business, Government and Society *Units: 3*
- BUS 385 - International Business *Units: 3*

- BUS 499 - Seminar in Strategic Business Management *Units: 3*
- MGMT 311 - Managing Diversity in the 21st Century Workplace *Units: 3*
- MGMT 312 - Human Resources Management *Units: 3*
- MGMT 314 - Leadership and Management *Units: 3*
- MGMT 316 - Training and Development *Units: 3*
- MGMT 318 - Employee Relations and Employment Law *Units: 3*
- MGMT 320 - Negotiation and Conflict Management *Units: 3*
- MGMT 350 - Decision Science *Units: 3 ; G.E./G.R. Area: B6*
- MGMT 362 - Service Management *Units: 3*
- MGMT 364 - Global Supply Chain Management *Units: 3*
- MGMT 365 - Enterprise Resource Planning and Control *Units: 3*
- MGMT 366 - Logistics Management *Units: 3*
- MGMT 368 - Quality and Process Improvement *Units: 3*
- MGMT 369 - Supply Management and E-Commerce *Units: 3*
- MGMT 398 - Internship *Units: 1-3*
- MGMT 400 - Seminar on Special Topics in Human Resource Management and Organizational

Behavior *Units: 3*

- MGMT 402 - Managing the Global Workplace *Units: 3*
- MGMT 404 - Staffing and Talent Management *Units: 3*
- MGMT 406 - Compensation and Reward Systems *Units: 3*
- MGMT 408 - HR Analytics *Units: 3*
- MGMT 450 - Project Management *Units: 3*
- MGMT 455 - Supply Chain Data Analytics *Units: 3*
- MGMT 460 - Healthcare Operations Management *Units: 3*
- MGMT 465 - Emerging Technologies in Operations *Units: 3*
- MGMT 490 - Independent Study *Units: 1-4*
- MGMT 497 - Issues in Management *Units: 3*

Management: Graduate

- BAN 601 - Technology Fundamentals for Analytics *Units: 3*
- BAN 602 - Quantitative Fundamentals for Analytics *Units: 3*
- BAN 610 - Database Management and Applications *Units: 3*
- BAN 612 - Data Analytics *Units: 3*
- BAN 620 - Data Mining *Units: 3*
- BAN 622 - Data Warehousing and Business Intelligence *Units: 3*
- BAN 630 - Optimization Methods for Analytics *Units: 3*
- BAN 632 - Big Data Technology and Applications *Units: 3*
- BAN 660 - Advanced Topics in Big Data *Units: 3*
- BAN 670 - Advanced Topics in Analytics *Units: 3*
- BAN 671 - Data Analytics with R *Units: 3*
- BAN 672 - Data Analytics with SAS *Units: 3*
- BAN 673 - Time Series Analytics *Units: 3*
- BAN 674 - Machine Learning for Business Analytics *Units: 3*
- BAN 675 - Text Mining and Social Media Analytics *Units: 3*
- BAN 676 - Deep Learning for Business Applications *Units: 3*
- BAN 693 - Business Analytics Capstone Project *Units: 3*
- BUS 601 - Leadership and Communication in Organizations *Units: 3*
- BUS 602 - Business Analytics for Managers *Units: 3*
- BUS 603 - Managing Complex Issues in Global Context *Units: 3 ; G.E./G.R. Area: UWSR*
- BUS 608 - Operations and Supply Chain Management *Units: 3*
- BUS 609 - Negotiation and Conflict Resolution *Units: 3*

- BUS 693 - Strategic Management Capstone (Project) *Units: 3*
- MGMT 610 - Strategic Human Resources Management *Units: 3*
- MGMT 612 - Strategic Compensation and Reward Systems *Units: 3*
- MGMT 614 - Talent Management *Units: 3*
- MGMT 616 - People Analytics *Units: 3*
- MGMT 618 - Human Resources and the Law *Units: 3*
- MGMT 620 - Leading Teams and Managing Creativity *Units: 3*
- MGMT 622 - Managing the Global Workplace *Units: 3*
- MGMT 624 - Special Topics in Human Resource Management and Organizational Behavior *Units: 3*
- MGMT 650 - Global and Sustainable Supply Chains *Units: 3*
- MGMT 652 - Service Operations Management *Units: 3*
- MGMT 654 - Enterprise Planning and Control *Units: 3*
- MGMT 656 - Quality and Lean Management *Units: 3*
- MGMT 658 - Project Management *Units: 3*
- MGMT 660 - Healthcare Operations Management *Units: 3*
- MGMT 662 - Operations Analytics *Units: 3*
- MGMT 670 - Strategic Industry and Competitive Analysis *Units: 3*
- MGMT 675 - Innovation Strategy *Units: 3*
- MGMT 676 - Global Strategy *Units: 3*
- MGMT 677 - International Field Immersion *Units: 3*
- MGMT 678 - Design Thinking for Leaders *Units: 3*
- MGMT 680 - Sustainability Strategy *Units: 3*
- MGMT 685 - Non-Market Strategy *Units: 3*
- MGMT 688 - Business Opportunity Consulting Project *Units: 3*
- MGMT 690 - Independent Study *Units: 1-4*
- MGMT 697 - Issues in Management *Units: 3*
- MGMT 698 - Internship *Units: 1-3*

Note: Please see Errata page for corrections to BAN course content.

Business Administration, M.B.A.: Global Innovators Concentration

Please note: The Master in Business Administration, Global Innovators concentration is only available through Continuing Education.

Business Administration, M.B.A. Program

Mission

CBE provides life-changing, quality business education to prepare students from diverse backgrounds to become successful business professionals and leaders.

Vision and Values

We aspire to be a leading business school known for making a difference in the lives of our students and for our impact on the world. In support of our mission, we value:

- Ethical behavior and personal integrity
- Collegiality and mutual respect

- Collaboration for learning, scholarship, and community engagement
- Social and environmental responsibility
- Inclusive learning environment for a diverse student population
- Innovative thinking and a global mindset

All CBE programs are accredited by AACSB International - The Association to Advance Collegiate Schools of Business.

The College of Business and Economics offers the following master's degrees:

Master of Business Administration

M.B.A. students must select one of the following concentrations to fulfill the degree:

Analytics for Managers • Finance • General Business • Global Innovator • Human Resources and Organizational Behavior • Marketing Management • Operations and Supply Chain Management • Strategy and Innovation

Master of Science in Business Analytics

Master of Science in Economics

Program Description

The M.B.A. program supports students' career advancement by preparing them for positions of leadership in an increasingly diverse and globally competitive economy. The program is centered on the rigorous knowledge of the basic functional areas of business, an appreciation of management challenges in a global context, and opportunities to develop students' interpersonal and executive leadership skills. It also enables students to deepen and broaden their knowledge and skills through elective courses in an area of concentration. The program offers a range of formats to cater to the needs of full and part time students and students seeking an executive style MBA.

Career Opportunities

There is a strong growth in opportunities for management careers in both the general and the functional areas represented in the program's concentrations. The MBA program prepares graduates with strong foundation in general management knowledge and skills and gives them an extra edge in concentration areas that are growing in demand. Among the strong careers for those with MBA include Financial Manager, Health Services Manager, High-End Management Consultant, Human Resources Manager, Investment Banker, Investment Fund Manager, Marketing Manager, Marketing Researcher, Sales Manager, Operations and Supply Chain Manager, and Upper Management and Executive Leadership. The growing career opportunities for Finance, Marketing, HR, Operations, and Strategy validate the strength and the value of the CSUEB MBA program.

Admission

The M.B.A. is open to students who hold a baccalaureate degree from an accredited college or university. Each applicant is evaluated on the basis of past academic performance as reflected in undergraduate grade point average and subsequent coursework; and results of the Graduate Management Admissions Test (GMAT) in verbal, quantitative, and the "Index Score" that involves the total GMAT score, $\text{Index Score} = (\text{Upper Division GPA} \times 200) + \text{Total GMAT}$. Admission to the program is selective. The average GPA

and GMAT score of applicants admitted to the program varies from year to year. For last year's admitted students profile, please visit the CBE Graduate Student Success and Services Office. GRE score, if provided, is accepted in place of GMAT. GMAT may be waived for applicants with five years or more work experience.

Proficiencies

All Conditionally Classified M.B.A. students must fulfill the University Writing Skills Requirement (UWSR) to achieve "Classified Graduate" status. The Writing Skills Requirement could be met as an undergraduate or graduate student at one of the CSU system campuses, with a score of 4.5 or better on the GMAT essay, by passing the Writing Skills Test (WST) or through coursework. Information about the Writing Skills Test and the courses can be found on the Testing Office website. The Website contains information on test dates, registration procedures and fees. Further information can be obtained from the Testing Office. If students have not satisfied the UWSR before they begin their graduate work, they must either take the WST or enroll in a first tier course by the end of their first semester in the program.

The MBA program is designed to provide essential business knowledge to students without assuming prior business background. Therefore no specific prerequisite courses are required, but proficiency in math and statistics is expected.

Student Standing and Progress Toward the Degree

There are three categories of student status which reflect student progress toward the degree: "Conditionally Classified Graduate," "Classified Graduate," and "Advancement to Candidacy."

- Students achieve "Conditionally Classified Graduate" status when they have been admitted to the MBA degree program, but have not yet completed the University Writing Skills Requirement.
- Students achieve "Classified Graduate" status when they have satisfactorily completed the University Writing Skills Requirement.
- Students are Advanced to Candidacy when they have completed the 42 semester units meeting the following criteria:
 - All have a course grade of "C" or better.
 - Complete a minimum of 30 units in residence after admission to the program.
 - Have a combined 3.0 grade point average (minimum) in all units taken to satisfy the requirements of the student's degree program.
 - Have no more than 12 units for extension and/or transfer credit (any extension and/or transfer credit must be approved by the Program Director) and/or coursework taken in "Unclassified Post-baccalaureate" status.
 - All units earned within the five years immediately preceding the completion of the requirements for the degree.
 - Have completed a satisfactory program of study as determined by the College of Business and Economics and the university.
- To be eligible for the M.B.A. a student must have been Advanced to Candidacy (see Graduate Degree Information chapter of the catalog)

Note: Students who fail to maintain progress by falling below a 3.0 GPA in their graduate courses for two or more consecutive semesters will be academically disqualified from the university.

Program Learning Outcomes

Students graduating with an M.B.A. from Cal State East Bay will be able to:

- Identify global business opportunities, analyze global business challenges, and develop business strategies.
- Demonstrate leadership and teamwork skills.
- Apply advanced written communication skills.
- Apply advanced oral communication skills.
- Demonstrate cross-cultural awareness and sensitivity in their interpersonal and group communication.
- Perform quantitative analyses and apply advanced technological tools to solve complex business problems.
- Analyze and integrate knowledge across disciplines to make managerial decisions to reach solutions to complex business problems.
- Recognize and analyze ethical issues in decision making.

Business Administration Degree Requirements (42 units)

Core Courses

The following 27 core units are required for all M.B.A. students:

- BUS 601 - Leadership and Communication in Organizations *Units: 3*
- BUS 602 - Business Analytics for Managers *Units: 3*
- BUS 603 - Managing Complex Issues in Global Context *Units: 3 ; G.E./G.R. Area: UWSR*
- BUS 604 - Financial Accounting *Units: 3*
- BUS 605 - Corporate Financial Management *Units: 3*
- BUS 606 - Managerial Economics *Units: 3*
- BUS 607 - Marketing Management *Units: 3*
- BUS 608 - Operations and Supply Chain Management *Units: 3*
- BUS 609 - Negotiation and Conflict Resolution *Units: 3*

Concentrations

Students must select one (1) of the following 12-unit concentrations:

- Business Administration, M.B.A.: Analytics for Managers Concentration
- Business Administration, M.B.A.: Finance Concentration
- Business Administration, M.B.A.: General Business Concentration
- Business Administration, M.B.A.: Global Innovators Concentration (Self Support only)
- Business Administration, M.B.A.: Human Resources Management and Organizational Behavior Concentration
- Business Administration, M.B.A.: Marketing Management Concentration
- Business Administration, M.B.A.: Operations and Supply Chain Management Concentration
- Business Administration, M.B.A.: Strategy & Innovation Concentration

Capstone Requirement

The following capstone is required for 3 units to complete the degree:

- BUS 693 - Strategic Management Capstone (Project) *Units: 3*

Global Innovators Concentration

Required Courses

Global Innovators concentration students are required to take the following 6 units:

- MGMT 676 - Global Strategy *Units: 3*
- MGMT 677 - International Field Immersion *Units: 3*

Elective Courses

In addition to required courses, students must take two (2) elective courses, for 6 units, selected from M.B.A. electives. The list of possible electives includes the following courses:

- FIN 670 - New Venture Financing *Units: 3*
- MGMT 688 - Business Opportunity Consulting Project *Units: 3*
- MGMT 620 - Leading Teams and Managing Creativity *Units: 3*
- MGMT 612 - Strategic Compensation and Reward Systems *Units: 3*
- MGMT 614 - Talent Management *Units: 3*
- MGMT 610 - Strategic Human Resources Management *Units: 3*
- MGMT 622 - Managing the Global Workplace *Units: 3*
- MGMT 650 - Global and Sustainable Supply Chains *Units: 3*
- MGMT 670 - Strategic Industry and Competitive Analysis *Units: 3*
- MGMT 675 - Innovation Strategy *Units: 3*
- MGMT 678 - Design Thinking for Leaders *Units: 3*
- MKTG 620 - Product and Brand Management *Units: 3*
- MKTG 610 - Marketing Research *Units: 3*
- MKTG 614 - Buyer Behavior *Units: 3*
- MKTG 630 - Seminar in International Marketing *Units: 3*

Other Graduate & Post-Baccalaureate Degree Requirements

In addition to departmental requirements, every student must also satisfy the University requirements for graduation as described throughout this catalog. These include the 70% unit residence requirement; the five-year rule on currency of subject matter; the minimum number of units in 600-level courses; the "C" minimum grade for each graduate course; the 3.00 cumulative grade point average; and the University Writing Skills Requirement.

Note: For information on meeting the University Writing Skills Requirement, see the Testing Office website at www.csueastbay.edu/testing or call (510) 885-3661.

Department Courses Listed by Course Type

Management Courses

Department of Management

Go to information for this department.

Courses

Information Technology Management

- ITM 330 - Business Applications Programming *Units: 3*
- ITM 331 - Database Management Systems *Units: 3*
- ITM 332 - Business Data Communications *Units: 3*
- ITM 336 - Information Systems Development and Management *Units: 3*
- ITM 338 - E-Business Technology and Management *Units: 3*
- ITM 398 - Internship *Units: 1-3*
- ITM 440 - Business Intelligence Systems *Units: 3*
- ITM 442 - Healthcare Information Systems *Units: 3*
- ITM 446 - Information Security *Units: 3*
- ITM 448 - Information Systems Analytics *Units: 3*
- ITM 449 - Advanced Topics in Information Technology *Units: 3*
- ITM 490 - Independent Study *Units: 1-4*
- ITM 497 - Issues in Information Technology Management *Units: 3*

Information Technology Management: Graduate

- ITM 690 - Independent Study *Units: 1-4*
- ITM 697 - Issues in Information Technology Management *Units: 3*
- ITM 698 - Internship *Units: 1-3*

Management

- BUS 110 - Fundamentals of Information Systems and Applications *Units: 3*
- BUS 310 - Organizational Behavior *Units: 3*
- BUS 320 - Business and Professional Ethics *Units: 3*
- BUS 340 - Information Technology Management *Units: 3*
- BUS 360 - Operations Management *Units: 3*
- BUS 370 - Business, Government and Society *Units: 3*
- BUS 385 - International Business *Units: 3*
- BUS 499 - Seminar in Strategic Business Management *Units: 3*
- MGMT 311 - Managing Diversity in the 21st Century Workplace *Units: 3*
- MGMT 312 - Human Resources Management *Units: 3*
- MGMT 314 - Leadership and Management *Units: 3*
- MGMT 316 - Training and Development *Units: 3*
- MGMT 318 - Employee Relations and Employment Law *Units: 3*
- MGMT 320 - Negotiation and Conflict Management *Units: 3*
- MGMT 350 - Decision Science *Units: 3 ; G.E./G.R. Area: B6*
- MGMT 362 - Service Management *Units: 3*
- MGMT 364 - Global Supply Chain Management *Units: 3*
- MGMT 365 - Enterprise Resource Planning and Control *Units: 3*
- MGMT 366 - Logistics Management *Units: 3*
- MGMT 368 - Quality and Process Improvement *Units: 3*
- MGMT 369 - Supply Management and E-Commerce *Units: 3*
- MGMT 398 - Internship *Units: 1-3*

- MGMT 400 - Seminar on Special Topics in Human Resource Management and Organizational Behavior *Units: 3*
- MGMT 402 - Managing the Global Workplace *Units: 3*
- MGMT 404 - Staffing and Talent Management *Units: 3*
- MGMT 406 - Compensation and Reward Systems *Units: 3*
- MGMT 408 - HR Analytics *Units: 3*
- MGMT 450 - Project Management *Units: 3*
- MGMT 455 - Supply Chain Data Analytics *Units: 3*
- MGMT 460 - Healthcare Operations Management *Units: 3*
- MGMT 465 - Emerging Technologies in Operations *Units: 3*
- MGMT 490 - Independent Study *Units: 1-4*
- MGMT 497 - Issues in Management *Units: 3*

Management: Graduate

- BAN 601 - Technology Fundamentals for Analytics *Units: 3*
- BAN 602 - Quantitative Fundamentals for Analytics *Units: 3*
- BAN 610 - Database Management and Applications *Units: 3*
- BAN 612 - Data Analytics *Units: 3*
- BAN 620 - Data Mining *Units: 3*
- BAN 622 - Data Warehousing and Business Intelligence *Units: 3*
- BAN 630 - Optimization Methods for Analytics *Units: 3*
- BAN 632 - Big Data Technology and Applications *Units: 3*
- BAN 660 - Advanced Topics in Big Data *Units: 3*
- BAN 670 - Advanced Topics in Analytics *Units: 3*
- BAN 671 - Data Analytics with R *Units: 3*
- BAN 672 - Data Analytics with SAS *Units: 3*
- BAN 673 - Time Series Analytics *Units: 3*
- BAN 674 - Machine Learning for Business Analytics *Units: 3*
- BAN 675 - Text Mining and Social Media Analytics *Units: 3*
- BAN 676 - Deep Learning for Business Applications *Units: 3*
- BAN 693 - Business Analytics Capstone Project *Units: 3*
- BUS 601 - Leadership and Communication in Organizations *Units: 3*
- BUS 602 - Business Analytics for Managers *Units: 3*
- BUS 603 - Managing Complex Issues in Global Context *Units: 3 ; G.E./G.R. Area: UWSR*
- BUS 608 - Operations and Supply Chain Management *Units: 3*
- BUS 609 - Negotiation and Conflict Resolution *Units: 3*
- BUS 693 - Strategic Management Capstone (Project) *Units: 3*
- MGMT 610 - Strategic Human Resources Management *Units: 3*
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- MGMT 614 - Talent Management *Units: 3*
- MGMT 616 - People Analytics *Units: 3*
- MGMT 618 - Human Resources and the Law *Units: 3*
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- MGMT 622 - Managing the Global Workplace *Units: 3*
- MGMT 624 - Special Topics in Human Resource Management and Organizational Behavior *Units: 3*
- MGMT 650 - Global and Sustainable Supply Chains *Units: 3*
- MGMT 652 - Service Operations Management *Units: 3*
- MGMT 654 - Enterprise Planning and Control *Units: 3*
- MGMT 656 - Quality and Lean Management *Units: 3*
- MGMT 658 - Project Management *Units: 3*

- MGMT 660 - Healthcare Operations Management *Units: 3*
- MGMT 662 - Operations Analytics *Units: 3*
- MGMT 670 - Strategic Industry and Competitive Analysis *Units: 3*
- MGMT 675 - Innovation Strategy *Units: 3*
- MGMT 676 - Global Strategy *Units: 3*
- MGMT 677 - International Field Immersion *Units: 3*
- MGMT 678 - Design Thinking for Leaders *Units: 3*
- MGMT 680 - Sustainability Strategy *Units: 3*
- MGMT 685 - Non-Market Strategy *Units: 3*
- MGMT 688 - Business Opportunity Consulting Project *Units: 3*
- MGMT 690 - Independent Study *Units: 1-4*
- MGMT 697 - Issues in Management *Units: 3*
- MGMT 698 - Internship *Units: 1-3*

Note: Please see Errata page for corrections to BAN course content.

Business Administration, M.B.A.: Human Resources Management and Organizational Behavior Concentration

Business Administration, M.B.A. Program

Mission

CBE provides life-changing, quality business education to prepare students from diverse backgrounds to become successful business professionals and leaders.

Vision and Values

We aspire to be a leading business school known for making a difference in the lives of our students and for our impact on the world. In support of our mission, we value:

- Ethical behavior and personal integrity
- Collegiality and mutual respect
- Collaboration for learning, scholarship, and community engagement
- Social and environmental responsibility
- Inclusive learning environment for a diverse student population
- Innovative thinking and a global mindset

All CBE programs are accredited by AACSB International - The Association to Advance Collegiate Schools of Business.

The College of Business and Economics offers the following master's degrees:

Master of Business Administration

M.B.A. students must select one of the following concentrations to fulfill the degree:

Analytics for Managers • Finance • General Business • Global Innovator • Human Resources and Organizational Behavior • Marketing Management • Operations and Supply Chain Management • Strategy and Innovation

Program Description

The M.B.A. program supports students' career advancement by preparing them for positions of leadership in an increasingly diverse and globally competitive economy. The program is centered on the rigorous knowledge of the basic functional areas of business, an appreciation of management challenges in a global context, and opportunities to develop students' interpersonal and executive leadership skills. It also enables students to deepen and broaden their knowledge and skills through elective courses in an area of concentration. The program offers a range of formats to cater to the needs of full and part time students and students seeking an executive style MBA.

Career Opportunities

There is a strong growth in opportunities for management careers in both the general and the functional areas represented in the program's concentrations. The MBA program prepares graduates with strong foundation in general management knowledge and skills and gives them an extra edge in concentration areas that are growing in demand. Among the strong careers for those with MBA include Financial Manager, Health Services Manager, High-End Management Consultant, Human Resources Manager, Investment Banker, Investment Fund Manager, Marketing Manager, Marketing Researcher, Sales Manager, Operations and Supply Chain Manager, and Upper Management and Executive Leadership. The growing career opportunities for Finance, Marketing, HR, Operations, and Strategy validate the strength and the value of the CSUEB MBA program.

Admission

The M.B.A. is open to students who hold a baccalaureate degree from an accredited college or university. Each applicant is evaluated on the basis of past academic performance as reflected in undergraduate grade point average and subsequent coursework; and results of the Graduate Management Admissions Test (GMAT) in verbal, quantitative, and the "Index Score" that involves the total GMAT score, $\text{Index Score} = (\text{Upper Division GPA} \times 200) + \text{Total GMAT}$. Admission to the program is selective. The average GPA and GMAT score of applicants admitted to the program varies from year to year. For last year's admitted students profile, please visit the CBE Graduate Student Success and Services Office. GRE score, if provided, is accepted in place of GMAT. GMAT may be waived for applicants with five years or more work experience.

Proficiencies

All Conditionally Classified M.B.A. students must fulfill the University Writing Skills Requirement (UWSR) to achieve "Classified Graduate" status. The Writing Skills Requirement could be met as an undergraduate or graduate student at one of the CSU system campuses, with a score of 4.5 or better on the GMAT essay, by passing the Writing Skills Test (WST) or through coursework. Information about the Writing Skills Test and the courses can be found on the Testing Office website. The Website contains information on test dates, registration procedures and fees. Further information can be obtained from the Testing Office. If students have not satisfied the UWSR before they begin their graduate work, they must either take the WST or enroll in a first tier course by the end of their first semester in the program.

The MBA program is designed to provide essential business knowledge to students without assuming prior business background. Therefore no specific prerequisite courses are required, but proficiency in math and statistics is expected.

Student Standing and Progress Toward the Degree

There are three categories of student status which reflect student progress toward the degree: "Conditionally Classified Graduate," "Classified Graduate," and "Advancement to Candidacy."

- Students achieve "Conditionally Classified Graduate" status when they have been admitted to the MBA degree program, but have not yet completed the University Writing Skills Requirement.
 - Students achieve "Classified Graduate" status when they have satisfactorily completed the University Writing Skills Requirement.
 - Students are Advanced to Candidacy when they have completed the 42 semester units meeting the following criteria:
 - All have a course grade of "C" or better.
 - Complete a minimum of 30 units in residence after admission to the program.
 - Have a combined 3.0 grade point average (minimum) in all units taken to satisfy the requirements of the student's degree program.
 - Have no more than 12 units for extension and/or transfer credit (any extension and/or transfer credit must be approved by the Program Director) and/or coursework taken in "Unclassified Post-baccalaureate" status.
 - All units earned within the five years immediately preceding the completion of the requirements for the degree.
 - Have completed a satisfactory program of study as determined by the College of Business and Economics and the university.
 - To be eligible for the M.B.A. a student must have been Advanced to Candidacy (see Graduate Degree Information chapter of the catalog)
- Note: Students who fail to maintain progress by falling below a 3.0 GPA in their graduate courses for two or more consecutive semesters will be academically disqualified from the university.*

Program Learning Outcomes

Students graduating with an M.B.A. from Cal State East Bay will be able to:

- Identify global business opportunities, analyze global business challenges, and develop business strategies.
- Demonstrate leadership and teamwork skills.
- Apply advanced written communication skills.
- Apply advanced oral communication skills.
- Demonstrate cross-cultural awareness and sensitivity in their interpersonal and group communication.
- Perform quantitative analyses and apply advanced technological tools to solve complex business problems.
- Analyze and integrate knowledge across disciplines to make managerial decisions to reach solutions to complex business problems.
- Recognize and analyze ethical issues in decision making.

Business Administration Degree Requirements (42 units)

Core Courses

The following 27 core units are required for all M.B.A. students:

- BUS 601 - Leadership and Communication in Organizations *Units: 3*
- BUS 602 - Business Analytics for Managers *Units: 3*
- BUS 603 - Managing Complex Issues in Global Context *Units: 3 ; G.E./G.R. Area:*
UWSR
- BUS 604 - Financial Accounting *Units: 3*
- BUS 605 - Corporate Financial Management *Units: 3*
- BUS 606 - Managerial Economics *Units: 3*
- BUS 607 - Marketing Management *Units: 3*
- BUS 608 - Operations and Supply Chain Management *Units: 3*
- BUS 609 - Negotiation and Conflict Resolution *Units: 3*

Concentrations

Students must select one (1) of the following 12-unit concentrations:

- Business Administration, M.B.A.: Analytics for Managers Concentration
- Business Administration, M.B.A.: Finance Concentration
- Business Administration, M.B.A.: General Business Concentration
- Business Administration, M.B.A.: Global Innovators Concentration (Self Support only)
- Business Administration, M.B.A.: Human Resources Management and Organizational Behavior
Concentration
- Business Administration, M.B.A.: Marketing Management Concentration
- Business Administration, M.B.A.: Operations and Supply Chain Management Concentration
- Business Administration, M.B.A.: Strategy & Innovation Concentration

Capstone Requirement

The following capstone is required for 3 units to complete the degree:

- BUS 693 - Strategic Management Capstone (Project) *Units: 3*

Human Resources Management and Organizational Behavior Concentration

Required Courses

Students select any four (4) courses, for 12 units, from the following:

- MGMT 610 - Strategic Human Resources Management *Units: 3*
- MGMT 612 - Strategic Compensation and Reward Systems *Units: 3*
- MGMT 614 - Talent Management *Units: 3*
- MGMT 616 - People Analytics *Units: 3*
- MGMT 618 - Human Resources and the Law *Units: 3*

- MGMT 620 - Leading Teams and Managing Creativity *Units: 3*
- MGMT 624 - Special Topics in Human Resource Management and Organizational Behavior *Units: 3*
- MGMT 622 - Managing the Global Workplace *Units: 3*

Other Graduate & Post-Baccalaureate Degree Requirements

In addition to departmental requirements, every student must also satisfy the University requirements for graduation as described throughout this catalog. These include the 70% unit residence requirement; the five-year rule on currency of subject matter; the minimum number of units in 600-level courses; the "C" minimum grade for each graduate course; the 3.00 cumulative grade point average; and the University Writing Skills Requirement.

Note: For information on meeting the University Writing Skills Requirement, see the Testing Office website at www.csueastbay.edu/testing or call (510) 885-3661.

Department Courses Listed by Course Type

Management Courses

Department of Management

Go to information for this department.

Courses

Information Technology Management

- ITM 330 - Business Applications Programming *Units: 3*
- ITM 331 - Database Management Systems *Units: 3*
- ITM 332 - Business Data Communications *Units: 3*
- ITM 336 - Information Systems Development and Management *Units: 3*
- ITM 338 - E-Business Technology and Management *Units: 3*
- ITM 398 - Internship *Units: 1-3*
- ITM 440 - Business Intelligence Systems *Units: 3*
- ITM 442 - Healthcare Information Systems *Units: 3*
- ITM 446 - Information Security *Units: 3*
- ITM 448 - Information Systems Analytics *Units: 3*
- ITM 449 - Advanced Topics in Information Technology *Units: 3*
- ITM 490 - Independent Study *Units: 1-4*
- ITM 497 - Issues in Information Technology Management *Units: 3*

Information Technology Management: Graduate

- ITM 690 - Independent Study *Units: 1-4*
- ITM 697 - Issues in Information Technology Management *Units: 3*
- ITM 698 - Internship *Units: 1-3*

Management

- BUS 110 - Fundamentals of Information Systems and Applications *Units: 3*

- BUS 310 - Organizational Behavior *Units: 3*
- BUS 320 - Business and Professional Ethics *Units: 3*
- BUS 340 - Information Technology Management *Units: 3*
- BUS 360 - Operations Management *Units: 3*
- BUS 370 - Business, Government and Society *Units: 3*
- BUS 385 - International Business *Units: 3*
- BUS 499 - Seminar in Strategic Business Management *Units: 3*
- MGMT 311 - Managing Diversity in the 21st Century Workplace *Units: 3*
- MGMT 312 - Human Resources Management *Units: 3*
- MGMT 314 - Leadership and Management *Units: 3*
- MGMT 316 - Training and Development *Units: 3*
- MGMT 318 - Employee Relations and Employment Law *Units: 3*
- MGMT 320 - Negotiation and Conflict Management *Units: 3*
- MGMT 350 - Decision Science *Units: 3 ; G.E./G.R. Area: B6*
- MGMT 362 - Service Management *Units: 3*
- MGMT 364 - Global Supply Chain Management *Units: 3*
- MGMT 365 - Enterprise Resource Planning and Control *Units: 3*
- MGMT 366 - Logistics Management *Units: 3*
- MGMT 368 - Quality and Process Improvement *Units: 3*
- MGMT 369 - Supply Management and E-Commerce *Units: 3*
- MGMT 398 - Internship *Units: 1-3*
- MGMT 400 - Seminar on Special Topics in Human Resource Management and Organizational

Behavior *Units: 3*

- MGMT 402 - Managing the Global Workplace *Units: 3*
- MGMT 404 - Staffing and Talent Management *Units: 3*
- MGMT 406 - Compensation and Reward Systems *Units: 3*
- MGMT 408 - HR Analytics *Units: 3*
- MGMT 450 - Project Management *Units: 3*
- MGMT 455 - Supply Chain Data Analytics *Units: 3*
- MGMT 460 - Healthcare Operations Management *Units: 3*
- MGMT 465 - Emerging Technologies in Operations *Units: 3*
- MGMT 490 - Independent Study *Units: 1-4*
- MGMT 497 - Issues in Management *Units: 3*

Management: Graduate

- BAN 601 - Technology Fundamentals for Analytics *Units: 3*
- BAN 602 - Quantitative Fundamentals for Analytics *Units: 3*
- BAN 610 - Database Management and Applications *Units: 3*
- BAN 612 - Data Analytics *Units: 3*
- BAN 620 - Data Mining *Units: 3*
- BAN 622 - Data Warehousing and Business Intelligence *Units: 3*
- BAN 630 - Optimization Methods for Analytics *Units: 3*
- BAN 632 - Big Data Technology and Applications *Units: 3*
- BAN 660 - Advanced Topics in Big Data *Units: 3*
- BAN 670 - Advanced Topics in Analytics *Units: 3*
- BAN 671 - Data Analytics with R *Units: 3*
- BAN 672 - Data Analytics with SAS *Units: 3*
- BAN 673 - Time Series Analytics *Units: 3*
- BAN 674 - Machine Learning for Business Analytics *Units: 3*
- BAN 675 - Text Mining and Social Media Analytics *Units: 3*
- BAN 676 - Deep Learning for Business Applications *Units: 3*

- • BAN 693 - Business Analytics Capstone Project *Units: 3*
- • BUS 601 - Leadership and Communication in Organizations *Units: 3*
- • BUS 602 - Business Analytics for Managers *Units: 3*
- • BUS 603 - Managing Complex Issues in Global Context *Units: 3 ; G.E./G.R. Area: UWSR*
- • BUS 608 - Operations and Supply Chain Management *Units: 3*
- • BUS 609 - Negotiation and Conflict Resolution *Units: 3*
- • BUS 693 - Strategic Management Capstone (Project) *Units: 3*
- • MGMT 610 - Strategic Human Resources Management *Units: 3*
- • MGMT 612 - Strategic Compensation and Reward Systems *Units: 3*
- • MGMT 614 - Talent Management *Units: 3*
- • MGMT 616 - People Analytics *Units: 3*
- • MGMT 618 - Human Resources and the Law *Units: 3*
- • MGMT 620 - Leading Teams and Managing Creativity *Units: 3*
- • MGMT 622 - Managing the Global Workplace *Units: 3*
- • MGMT 624 - Special Topics in Human Resource Management and Organizational Behavior
Units: 3
- • MGMT 650 - Global and Sustainable Supply Chains *Units: 3*
- • MGMT 652 - Service Operations Management *Units: 3*
- • MGMT 654 - Enterprise Planning and Control *Units: 3*
- • MGMT 656 - Quality and Lean Management *Units: 3*
- • MGMT 658 - Project Management *Units: 3*
- • MGMT 660 - Healthcare Operations Management *Units: 3*
- • MGMT 662 - Operations Analytics *Units: 3*
- • MGMT 670 - Strategic Industry and Competitive Analysis *Units: 3*
- • MGMT 675 - Innovation Strategy *Units: 3*
- • MGMT 676 - Global Strategy *Units: 3*
- • MGMT 677 - International Field Immersion *Units: 3*
- • MGMT 678 - Design Thinking for Leaders *Units: 3*
- • MGMT 680 - Sustainability Strategy *Units: 3*
- • MGMT 685 - Non-Market Strategy *Units: 3*
- • MGMT 688 - Business Opportunity Consulting Project *Units: 3*
- • MGMT 690 - Independent Study *Units: 1-4*
- • MGMT 697 - Issues in Management *Units: 3*
- • MGMT 698 - Internship *Units: 1-3*

Note: Please see Errata page for corrections to BAN course content.

Business Administration, M.B.A.: Operations and Supply Chain Management Concentration

Business Administration, M.B.A. Program

Mission

CBE provides life-changing, quality business education to prepare students from diverse backgrounds to become successful business professionals and leaders.

Vision and Values

We aspire to be a leading business school known for making a difference in the lives of our students and for our impact on the world. In support of our mission, we value:

- Ethical behavior and personal integrity
- Collegiality and mutual respect
- Collaboration for learning, scholarship, and community engagement
- Social and environmental responsibility
- Inclusive learning environment for a diverse student population
- Innovative thinking and a global mindset

All CBE programs are accredited by AACSB International - The Association to Advance Collegiate Schools of Business.

The College of Business and Economics offers the following master's degrees:

Master of Business Administration

M.B.A. students must select one of the following concentrations to fulfill the degree:

Analytics for Managers • Finance • General Business • Global Innovator • Human Resources and Organizational Behavior • Marketing Management • Operations and Supply Chain Management • Strategy and Innovation

Master of Science in Business Analytics

Master of Science in Economics

Program Description

The M.B.A. program supports students' career advancement by preparing them for positions of leadership in an increasingly diverse and globally competitive economy. The program is centered on the rigorous knowledge of the basic functional areas of business, an appreciation of management challenges in a global context, and opportunities to develop students' interpersonal and executive leadership skills. It also enables students to deepen and broaden their knowledge and skills through elective courses in an area of concentration. The program offers a range of formats to cater to the needs of full and part time students and students seeking an executive style MBA.

Career Opportunities

There is a strong growth in opportunities for management careers in both the general and the functional areas represented in the program's concentrations. The MBA program prepares graduates with strong foundation in general management knowledge and skills and gives them an extra edge in concentration areas that are growing in demand. Among the strong careers for those with MBA include Financial Manager, Health Services Manager, High-End Management Consultant, Human Resources Manager, Investment Banker, Investment Fund Manager, Marketing Manager, Marketing Researcher, Sales Manager, Operations and Supply Chain Manager, and Upper Management and Executive Leadership. The growing career opportunities for Finance, Marketing, HR, Operations, and Strategy validate the strength and the value of the CSUEB MBA program.

Admission

The M.B.A. is open to students who hold a baccalaureate degree from an accredited college or university. Each applicant is evaluated on the basis of past academic performance as reflected in undergraduate grade point average and subsequent coursework; and results of the Graduate Management Admissions Test (GMAT) in verbal, quantitative, and the "Index Score" that involves the total GMAT score, $\text{Index Score} = (\text{Upper Division GPA} \times 200) + \text{Total GMAT}$. Admission to the program is selective. The average GPA and GMAT score of applicants admitted to the program varies from year to year. For last year's admitted students profile, please visit the CBE Graduate Student Success and Services Office. GRE score, if provided, is accepted in place of GMAT. GMAT may be waived for applicants with five years or more work experience.

Proficiencies

All Conditionally Classified M.B.A. students must fulfill the University Writing Skills Requirement (UWSR) to achieve "Classified Graduate" status. The Writing Skills Requirement could be met as an undergraduate or graduate student at one of the CSU system campuses, with a score of 4.5 or better on the GMAT essay, by passing the Writing Skills Test (WST) or through coursework. Information about the Writing Skills Test and the courses can be found on the Testing Office website. The Website contains information on test dates, registration procedures and fees. Further information can be obtained from the Testing Office. If students have not satisfied the UWSR before they begin their graduate work, they must either take the WST or enroll in a first tier course by the end of their first semester in the program.

The MBA program is designed to provide essential business knowledge to students without assuming prior business background. Therefore no specific prerequisite courses are required, but proficiency in math and statistics is expected.

Student Standing and Progress Toward the Degree

There are three categories of student status which reflect student progress toward the degree: "Conditionally Classified Graduate," "Classified Graduate," and "Advancement to Candidacy."

- Students achieve "Conditionally Classified Graduate" status when they have been admitted to the MBA degree program, but have not yet completed the University Writing Skills Requirement.
- Students achieve "Classified Graduate" status when they have satisfactorily completed the University Writing Skills Requirement.
- Students are Advanced to Candidacy when they have completed the 42 semester units meeting the following criteria:
 - All have a course grade of "C" or better.
 - Complete a minimum of 30 units in residence after admission to the program.
 - Have a combined 3.0 grade point average (minimum) in all units taken to satisfy the requirements of the student's degree program.
 - Have no more than 12 units for extension and/or transfer credit (any extension and/or transfer credit must be approved by the Program Director) and/or coursework taken in "Unclassified Post-baccalaureate" status.
 - All units earned within the five years immediately preceding the completion of the requirements for the degree.
 - Have completed a satisfactory program of study as determined by the College of Business and Economics and the university.
- To be eligible for the M.B.A. a student must have been Advanced to Candidacy (see Graduate Degree Information chapter of the catalog)

Note: Students who fail to maintain progress by falling below a 3.0 GPA in their graduate courses for two or more consecutive semesters will be academically disqualified from the university.

Program Learning Outcomes

Students graduating with an M.B.A. from Cal State East Bay will be able to:

- Identify global business opportunities, analyze global business challenges, and develop business strategies.
- Demonstrate leadership and teamwork skills.
- Apply advanced written communication skills.
- Apply advanced oral communication skills.
- Demonstrate cross-cultural awareness and sensitivity in their interpersonal and group communication.
- Perform quantitative analyses and apply advanced technological tools to solve complex business problems.
- Analyze and integrate knowledge across disciplines to make managerial decisions to reach solutions to complex business problems.
- Recognize and analyze ethical issues in decision making.

Business Administration Degree Requirements (42 units)

Core Courses

The following 27 core units are required for all M.B.A. students:

- BUS 601 - Leadership and Communication in Organizations *Units: 3*
- BUS 602 - Business Analytics for Managers *Units: 3*
- BUS 603 - Managing Complex Issues in Global Context *Units: 3 ; G.E./G.R. Area:*
UWSR
- BUS 604 - Financial Accounting *Units: 3*
- BUS 605 - Corporate Financial Management *Units: 3*
- BUS 606 - Managerial Economics *Units: 3*
- BUS 607 - Marketing Management *Units: 3*
- BUS 608 - Operations and Supply Chain Management *Units: 3*
- BUS 609 - Negotiation and Conflict Resolution *Units: 3*

Concentrations

Students must select one (1) of the following 12-unit concentrations:

- Business Administration, M.B.A.: Analytics for Managers Concentration
- Business Administration, M.B.A.: Finance Concentration
- Business Administration, M.B.A.: General Business Concentration
- Business Administration, M.B.A.: Global Innovators Concentration (Self Support only)
- Business Administration, M.B.A.: Human Resources Management and Organizational Behavior Concentration
- Business Administration, M.B.A.: Marketing Management Concentration

- Business Administration, M.B.A.: Operations and Supply Chain Management Concentration
- Business Administration, M.B.A.: Strategy & Innovation Concentration

Capstone Requirement

The following capstone is required for 3 units to complete the degree:

- **BUS 693 - Strategic Management Capstone (Project)** *Units: 3*

Operations and Supply Chain Management Concentration

Required Courses

Students select any four (4) courses, for 12 units, from the following:

- **MGMT 650 - Global and Sustainable Supply Chains** *Units: 3*
- **MGMT 652 - Service Operations Management** *Units: 3*
- **MGMT 654 - Enterprise Planning and Control** *Units: 3*
- **MGMT 656 - Quality and Lean Management** *Units: 3*
- **MGMT 658 - Project Management** *Units: 3*
- **MGMT 660 - Healthcare Operations Management** *Units: 3*
- **MGMT 662 - Operations Analytics** *Units: 3*

Other Graduate & Post-Baccalaureate Degree Requirements

In addition to departmental requirements, every student must also satisfy the University requirements for graduation as described throughout this catalog. These include the 70% unit residence requirement; the five-year rule on currency of subject matter; the minimum number of units in 600-level courses; the "C" minimum grade for each graduate course; the 3.00 cumulative grade point average; and the University Writing Skills Requirement.

Note: For information on meeting the University Writing Skills Requirement, see the Testing Office website at www.csueastbay.edu/testing or call (510) 885-3661.

Department Courses Listed by Course Type

Management Courses

Department of Management

Go to information for this department.

Courses

Information Technology Management

- **ITM 330 - Business Applications Programming** *Units: 3*

- ITM 331 - Database Management Systems *Units: 3*
- ITM 332 - Business Data Communications *Units: 3*
- ITM 336 - Information Systems Development and Management *Units: 3*
- ITM 338 - E-Business Technology and Management *Units: 3*
- ITM 398 - Internship *Units: 1-3*
- ITM 440 - Business Intelligence Systems *Units: 3*
- ITM 442 - Healthcare Information Systems *Units: 3*
- ITM 446 - Information Security *Units: 3*
- ITM 448 - Information Systems Analytics *Units: 3*
- ITM 449 - Advanced Topics in Information Technology *Units: 3*
- ITM 490 - Independent Study *Units: 1-4*
- ITM 497 - Issues in Information Technology Management *Units: 3*

Information Technology Management: Graduate

- ITM 690 - Independent Study *Units: 1-4*
- ITM 697 - Issues in Information Technology Management *Units: 3*
- ITM 698 - Internship *Units: 1-3*

Management

- BUS 110 - Fundamentals of Information Systems and Applications *Units: 3*
- BUS 310 - Organizational Behavior *Units: 3*
- BUS 320 - Business and Professional Ethics *Units: 3*
- BUS 340 - Information Technology Management *Units: 3*
- BUS 360 - Operations Management *Units: 3*
- BUS 370 - Business, Government and Society *Units: 3*
- BUS 385 - International Business *Units: 3*
- BUS 499 - Seminar in Strategic Business Management *Units: 3*
- MGMT 311 - Managing Diversity in the 21st Century Workplace *Units: 3*
- MGMT 312 - Human Resources Management *Units: 3*
- MGMT 314 - Leadership and Management *Units: 3*
- MGMT 316 - Training and Development *Units: 3*
- MGMT 318 - Employee Relations and Employment Law *Units: 3*
- MGMT 320 - Negotiation and Conflict Management *Units: 3*
- MGMT 350 - Decision Science *Units: 3 ; G.E./G.R. Area: B6*
- MGMT 362 - Service Management *Units: 3*
- MGMT 364 - Global Supply Chain Management *Units: 3*
- MGMT 365 - Enterprise Resource Planning and Control *Units: 3*
- MGMT 366 - Logistics Management *Units: 3*
- MGMT 368 - Quality and Process Improvement *Units: 3*
- MGMT 369 - Supply Management and E-Commerce *Units: 3*
- MGMT 398 - Internship *Units: 1-3*
- MGMT 400 - Seminar on Special Topics in Human Resource Management and Organizational Behavior *Units: 3*

Behavior

- MGMT 402 - Managing the Global Workplace *Units: 3*
- MGMT 404 - Staffing and Talent Management *Units: 3*
- MGMT 406 - Compensation and Reward Systems *Units: 3*
- MGMT 408 - HR Analytics *Units: 3*
- MGMT 450 - Project Management *Units: 3*
- MGMT 455 - Supply Chain Data Analytics *Units: 3*
- MGMT 460 - Healthcare Operations Management *Units: 3*
- MGMT 465 - Emerging Technologies in Operations *Units: 3*

- MGMT 490 - Independent Study *Units: 1-4*
- MGMT 497 - Issues in Management *Units: 3*

Management: Graduate

- BAN 601 - Technology Fundamentals for Analytics *Units: 3*
- BAN 602 - Quantitative Fundamentals for Analytics *Units: 3*
- BAN 610 - Database Management and Applications *Units: 3*
- BAN 612 - Data Analytics *Units: 3*
- BAN 620 - Data Mining *Units: 3*
- BAN 622 - Data Warehousing and Business Intelligence *Units: 3*
- BAN 630 - Optimization Methods for Analytics *Units: 3*
- BAN 632 - Big Data Technology and Applications *Units: 3*
- BAN 660 - Advanced Topics in Big Data *Units: 3*
- BAN 670 - Advanced Topics in Analytics *Units: 3*
- BAN 671 - Data Analytics with R *Units: 3*
- BAN 672 - Data Analytics with SAS *Units: 3*
- BAN 673 - Time Series Analytics *Units: 3*
- BAN 674 - Machine Learning for Business Analytics *Units: 3*
- BAN 675 - Text Mining and Social Media Analytics *Units: 3*
- BAN 676 - Deep Learning for Business Applications *Units: 3*
- BAN 693 - Business Analytics Capstone Project *Units: 3*
- BUS 601 - Leadership and Communication in Organizations *Units: 3*
- BUS 602 - Business Analytics for Managers *Units: 3*
- BUS 603 - Managing Complex Issues in Global Context *Units: 3 ; G.E./G.R. Area: UWSR*
- BUS 608 - Operations and Supply Chain Management *Units: 3*
- BUS 609 - Negotiation and Conflict Resolution *Units: 3*
- BUS 693 - Strategic Management Capstone (Project) *Units: 3*
- MGMT 610 - Strategic Human Resources Management *Units: 3*
- MGMT 612 - Strategic Compensation and Reward Systems *Units: 3*
- MGMT 614 - Talent Management *Units: 3*
- MGMT 616 - People Analytics *Units: 3*
- MGMT 618 - Human Resources and the Law *Units: 3*
- MGMT 620 - Leading Teams and Managing Creativity *Units: 3*
- MGMT 622 - Managing the Global Workplace *Units: 3*
- MGMT 624 - Special Topics in Human Resource Management and Organizational Behavior

Units: 3

- MGMT 650 - Global and Sustainable Supply Chains *Units: 3*
- MGMT 652 - Service Operations Management *Units: 3*
- MGMT 654 - Enterprise Planning and Control *Units: 3*
- MGMT 656 - Quality and Lean Management *Units: 3*
- MGMT 658 - Project Management *Units: 3*
- MGMT 660 - Healthcare Operations Management *Units: 3*
- MGMT 662 - Operations Analytics *Units: 3*
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- MGMT 675 - Innovation Strategy *Units: 3*
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- MGMT 678 - Design Thinking for Leaders *Units: 3*
- MGMT 680 - Sustainability Strategy *Units: 3*
- MGMT 685 - Non-Market Strategy *Units: 3*
- MGMT 688 - Business Opportunity Consulting Project *Units: 3*

- MGMT 690 - Independent Study *Units: 1-4*
- MGMT 697 - Issues in Management *Units: 3*
- MGMT 698 - Internship *Units: 1-3*

Note: Please see Errata page for corrections to BAN course content.

Business Administration, M.B.A.: Strategy & Innovation Concentration

Business Administration, M.B.A. Program

Mission

CBE provides life-changing, quality business education to prepare students from diverse backgrounds to become successful business professionals and leaders.

Vision and Values

We aspire to be a leading business school known for making a difference in the lives of our students and for our impact on the world. In support of our mission, we value:

- Ethical behavior and personal integrity
- Collegiality and mutual respect
- Collaboration for learning, scholarship, and community engagement
- Social and environmental responsibility
- Inclusive learning environment for a diverse student population
- Innovative thinking and a global mindset

All CBE programs are accredited by AACSB International - The Association to Advance Collegiate Schools of Business.

The College of Business and Economics offers the following master's degrees:

Master of Business Administration

M.B.A. students must select one of the following concentrations to fulfill the degree:

Analytics for Managers • Finance • General Business • Global Innovator • Human Resources and Organizational Behavior • Marketing Management • Operations and Supply Chain Management • Strategy and Innovation

Master of Science in Business Analytics

Master of Science in Economics

Program Description

The M.B.A. program supports students' career advancement by preparing them for positions of leadership in an increasingly diverse and globally competitive economy. The program is centered on the rigorous knowledge of the basic functional areas of business, an appreciation of management challenges in a global context, and opportunities to develop students' interpersonal and executive leadership skills. It also

enables students to deepen and broaden their knowledge and skills through elective courses in an area of concentration. The program offers a range of formats to cater to the needs of full and part time students and students seeking an executive style MBA.

Career Opportunities

There is a strong growth in opportunities for management careers in both the general and the functional areas represented in the program's concentrations. The MBA program prepares graduates with strong foundation in general management knowledge and skills and gives them an extra edge in concentration areas that are growing in demand. Among the strong careers for those with MBA include Financial Manager, Health Services Manager, High-End Management Consultant, Human Resources Manager, Investment Banker, Investment Fund Manager, Marketing Manager, Marketing Researcher, Sales Manager, Operations and Supply Chain Manager, and Upper Management and Executive Leadership. The growing career opportunities for Finance, Marketing, HR, Operations, and Strategy validate the strength and the value of the CSUEB MBA program.

Admission

The M.B.A. is open to students who hold a baccalaureate degree from an accredited college or university. Each applicant is evaluated on the basis of past academic performance as reflected in undergraduate grade point average and subsequent coursework; and results of the Graduate Management Admissions Test (GMAT) in verbal, quantitative, and the "Index Score" that involves the total GMAT score, $\text{Index Score} = (\text{Upper Division GPA} \times 200) + \text{Total GMAT}$. Admission to the program is selective. The average GPA and GMAT score of applicants admitted to the program varies from year to year. For last year's admitted students profile, please visit the CBE Graduate Student Success and Services Office. GRE score, if provided, is accepted in place of GMAT. GMAT may be waived for applicants with five years or more work experience.

Proficiencies

All Conditionally Classified M.B.A. students must fulfill the University Writing Skills Requirement (UWSR) to achieve "Classified Graduate" status. The Writing Skills Requirement could be met as an undergraduate or graduate student at one of the CSU system campuses, with a score of 4.5 or better on the GMAT essay, by passing the Writing Skills Test (WST) or through coursework. Information about the Writing Skills Test and the courses can be found on the Testing Office website. The Website contains information on test dates, registration procedures and fees. Further information can be obtained from the Testing Office. If students have not satisfied the UWSR before they begin their graduate work, they must either take the WST or enroll in a first tier course by the end of their first semester in the program.

The MBA program is designed to provide essential business knowledge to students without assuming prior business background. Therefore no specific prerequisite courses are required, but proficiency in math and statistics is expected.

Student Standing and Progress Toward the Degree

There are three categories of student status which reflect student progress toward the degree: "Conditionally Classified Graduate," "Classified Graduate," and "Advancement to Candidacy."

- Students achieve "Conditionally Classified Graduate" status when they have been admitted to the MBA degree program, but have not yet completed the University Writing Skills Requirement.
 - Students achieve "Classified Graduate" status when they have satisfactorily completed the University Writing Skills Requirement.
 - Students are Advanced to Candidacy when they have completed the 42 semester units meeting the following criteria:
 - All have a course grade of "C" or better.
 - Complete a minimum of 30 units in residence after admission to the program.
 - Have a combined 3.0 grade point average (minimum) in all units taken to satisfy the requirements of the student's degree program.
 - Have no more than 12 units for extension and/or transfer credit (any extension and/or transfer credit must be approved by the Program Director) and/or coursework taken in "Unclassified Post-baccalaureate" status.
 - All units earned within the five years immediately preceding the completion of the requirements for the degree.
 - Have completed a satisfactory program of study as determined by the College of Business and Economics and the university.
 - To be eligible for the M.B.A. a student must have been Advanced to Candidacy (see Graduate Degree Information chapter of the catalog)
- Note: Students who fail to maintain progress by falling below a 3.0 GPA in their graduate courses for two or more consecutive semesters will be academically disqualified from the university.*

Program Learning Outcomes

Students graduating with an M.B.A. from Cal State East Bay will be able to:

- Identify global business opportunities, analyze global business challenges, and develop business strategies.
- Demonstrate leadership and teamwork skills.
- Apply advanced written communication skills.
- Apply advanced oral communication skills.
- Demonstrate cross-cultural awareness and sensitivity in their interpersonal and group communication.
- Perform quantitative analyses and apply advanced technological tools to solve complex business problems.
- Analyze and integrate knowledge across disciplines to make managerial decisions to reach solutions to complex business problems.
- Recognize and analyze ethical issues in decision making.

Business Administration Degree Requirements (42 units)

Core Courses

The following 27 core units are required for all M.B.A. students:

- BUS 601 - Leadership and Communication in Organizations *Units: 3*
- BUS 602 - Business Analytics for Managers *Units: 3*
- BUS 603 - Managing Complex Issues in Global Context *Units: 3 ; G.E./G.R. Area: UWSR*

- BUS 604 - Financial Accounting *Units: 3*
- BUS 605 - Corporate Financial Management *Units: 3*
- BUS 606 - Managerial Economics *Units: 3*
- BUS 607 - Marketing Management *Units: 3*
- BUS 608 - Operations and Supply Chain Management *Units: 3*
- BUS 609 - Negotiation and Conflict Resolution *Units: 3*

Concentrations

Students must select one (1) of the following 12-unit concentrations:

- Business Administration, M.B.A.: Analytics for Managers Concentration
- Business Administration, M.B.A.: Finance Concentration
- Business Administration, M.B.A.: General Business Concentration
- Business Administration, M.B.A.: Global Innovators Concentration (Self Support only)
- Business Administration, M.B.A.: Human Resources Management and Organizational Behavior Concentration
- Business Administration, M.B.A.: Marketing Management Concentration
- Business Administration, M.B.A.: Operations and Supply Chain Management Concentration
- Business Administration, M.B.A.: Strategy & Innovation Concentration

Capstone Requirement

The following capstone is required for 3 units to complete the degree:

- BUS 693 - Strategic Management Capstone (Project) *Units: 3*

Strategy & Innovation Concentration

Required Courses

Students select at least three (3) courses, for 12 units, from the following list of electives. The fourth course can be any elective course from other M.B.A. concentrations.

- MGMT 678 - Design Thinking for Leaders *Units: 3*
- MGMT 670 - Strategic Industry and Competitive Analysis *Units: 3*
- MGMT 675 - Innovation Strategy *Units: 3*
- MGMT 676 - Global Strategy *Units: 3*
- MGMT 680 - Sustainability Strategy *Units: 3*
- MGMT 685 - Non-Market Strategy *Units: 3*
- MGMT 688 - Business Opportunity Consulting Project *Units: 3*

Other Graduate & Post-Baccalaureate Degree Requirements

In addition to departmental requirements, every student must also satisfy the University requirements for graduation as described throughout this catalog. These include the 70% unit residence requirement; the five-year rule on currency of subject matter; the minimum number of units in 600-level courses; the "C"

minimum grade for each graduate course; the 3.00 cumulative grade point average; and the University Writing Skills Requirement.

Note: For information on meeting the University Writing Skills Requirement, see the Testing Office website at www.csueastbay.edu/testing or call (510) 885-3661.

Department Courses Listed by Course Type

Management Courses

Department of Management

Go to information for this department.

Courses

Information Technology Management

- ITM 330 - Business Applications Programming *Units: 3*
- ITM 331 - Database Management Systems *Units: 3*
- ITM 332 - Business Data Communications *Units: 3*
- ITM 336 - Information Systems Development and Management *Units: 3*
- ITM 338 - E-Business Technology and Management *Units: 3*
- ITM 398 - Internship *Units: 1-3*
- ITM 440 - Business Intelligence Systems *Units: 3*
- ITM 442 - Healthcare Information Systems *Units: 3*
- ITM 446 - Information Security *Units: 3*
- ITM 448 - Information Systems Analytics *Units: 3*
- ITM 449 - Advanced Topics in Information Technology *Units: 3*
- ITM 490 - Independent Study *Units: 1-4*
- ITM 497 - Issues in Information Technology Management *Units: 3*

Information Technology Management: Graduate

- ITM 690 - Independent Study *Units: 1-4*
- ITM 697 - Issues in Information Technology Management *Units: 3*
- ITM 698 - Internship *Units: 1-3*

Management

- BUS 110 - Fundamentals of Information Systems and Applications *Units: 3*
- BUS 310 - Organizational Behavior *Units: 3*
- BUS 320 - Business and Professional Ethics *Units: 3*
- BUS 340 - Information Technology Management *Units: 3*
- BUS 360 - Operations Management *Units: 3*
- BUS 370 - Business, Government and Society *Units: 3*
- BUS 385 - International Business *Units: 3*
- BUS 499 - Seminar in Strategic Business Management *Units: 3*
- MGMT 311 - Managing Diversity in the 21st Century Workplace *Units: 3*
- MGMT 312 - Human Resources Management *Units: 3*
- MGMT 314 - Leadership and Management *Units: 3*
- MGMT 316 - Training and Development *Units: 3*

- MGMT 318 - Employee Relations and Employment Law *Units: 3*
- MGMT 320 - Negotiation and Conflict Management *Units: 3*
- MGMT 350 - Decision Science *Units: 3 ; G.E./G.R. Area: B6*
- MGMT 362 - Service Management *Units: 3*
- MGMT 364 - Global Supply Chain Management *Units: 3*
- MGMT 365 - Enterprise Resource Planning and Control *Units: 3*
- MGMT 366 - Logistics Management *Units: 3*
- MGMT 368 - Quality and Process Improvement *Units: 3*
- MGMT 369 - Supply Management and E-Commerce *Units: 3*
- MGMT 398 - Internship *Units: 1-3*
- MGMT 400 - Seminar on Special Topics in Human Resource Management and Organizational

Behavior *Units: 3*

- MGMT 402 - Managing the Global Workplace *Units: 3*
- MGMT 404 - Staffing and Talent Management *Units: 3*
- MGMT 406 - Compensation and Reward Systems *Units: 3*
- MGMT 408 - HR Analytics *Units: 3*
- MGMT 450 - Project Management *Units: 3*
- MGMT 455 - Supply Chain Data Analytics *Units: 3*
- MGMT 460 - Healthcare Operations Management *Units: 3*
- MGMT 465 - Emerging Technologies in Operations *Units: 3*
- MGMT 490 - Independent Study *Units: 1-4*
- MGMT 497 - Issues in Management *Units: 3*

Management: Graduate

- BAN 601 - Technology Fundamentals for Analytics *Units: 3*
- BAN 602 - Quantitative Fundamentals for Analytics *Units: 3*
- BAN 610 - Database Management and Applications *Units: 3*
- BAN 612 - Data Analytics *Units: 3*
- BAN 620 - Data Mining *Units: 3*
- BAN 622 - Data Warehousing and Business Intelligence *Units: 3*
- BAN 630 - Optimization Methods for Analytics *Units: 3*
- BAN 632 - Big Data Technology and Applications *Units: 3*
- BAN 660 - Advanced Topics in Big Data *Units: 3*
- BAN 670 - Advanced Topics in Analytics *Units: 3*
- BAN 671 - Data Analytics with R *Units: 3*
- BAN 672 - Data Analytics with SAS *Units: 3*
- BAN 673 - Time Series Analytics *Units: 3*
- BAN 674 - Machine Learning for Business Analytics *Units: 3*
- BAN 675 - Text Mining and Social Media Analytics *Units: 3*
- BAN 676 - Deep Learning for Business Applications *Units: 3*
- BAN 693 - Business Analytics Capstone Project *Units: 3*
- BUS 601 - Leadership and Communication in Organizations *Units: 3*
- BUS 602 - Business Analytics for Managers *Units: 3*
- BUS 603 - Managing Complex Issues in Global Context *Units: 3 ; G.E./G.R. Area: UWSR*
- BUS 608 - Operations and Supply Chain Management *Units: 3*
- BUS 609 - Negotiation and Conflict Resolution *Units: 3*
- BUS 693 - Strategic Management Capstone (Project) *Units: 3*
- MGMT 610 - Strategic Human Resources Management *Units: 3*
- MGMT 612 - Strategic Compensation and Reward Systems *Units: 3*
- MGMT 614 - Talent Management *Units: 3*
- MGMT 616 - People Analytics *Units: 3*

- MGMT 618 - Human Resources and the Law *Units: 3*
- MGMT 620 - Leading Teams and Managing Creativity *Units: 3*
- MGMT 622 - Managing the Global Workplace *Units: 3*
- MGMT 624 - Special Topics in Human Resource Management and Organizational Behavior

Units: 3

- MGMT 650 - Global and Sustainable Supply Chains *Units: 3*
- MGMT 652 - Service Operations Management *Units: 3*
- MGMT 654 - Enterprise Planning and Control *Units: 3*
- MGMT 656 - Quality and Lean Management *Units: 3*
- MGMT 658 - Project Management *Units: 3*
- MGMT 660 - Healthcare Operations Management *Units: 3*
- MGMT 662 - Operations Analytics *Units: 3*
- MGMT 670 - Strategic Industry and Competitive Analysis *Units: 3*
- MGMT 675 - Innovation Strategy *Units: 3*
- MGMT 676 - Global Strategy *Units: 3*
- MGMT 677 - International Field Immersion *Units: 3*
- MGMT 678 - Design Thinking for Leaders *Units: 3*
- MGMT 680 - Sustainability Strategy *Units: 3*
- MGMT 685 - Non-Market Strategy *Units: 3*
- MGMT 688 - Business Opportunity Consulting Project *Units: 3*
- MGMT 690 - Independent Study *Units: 1-4*
- MGMT 697 - Issues in Management *Units: 3*
- MGMT 698 - Internship *Units: 1-3*

Note: Please see Errata page for corrections to BAN course content.

Business Analytics, M.S.

Business Analytics, M.S. Program

Program Description

The Master of Science in Business Analytics (M.S.B.A.) provides students with a balanced and broad set of knowledge and skills in data analytics. This degree offers an in-depth study of advanced information technology used in business analytics. It also provides a comprehensive presentation of quantitative methods and software for business analytics, and develops students' knowledge and skills in applying analytics to solve business problems.

Career Opportunities

The M.S.B.A. program prepares students for exciting career opportunities in business analytics, business intelligence, data science, and data engineering.

Admission Requirements

The M.S. Business Analytics minimum admission requirements include:

- Baccalaureate degree with strong quantitative and computer programming background from an accredited college or university.

- Demonstrated mastery of college algebra, statistics and object-oriented programming with a grade of "C" or better in relevant coursework within 7 years of starting in the program.
 - Undergraduate degree with at least 2.5 Grade Point Average (or equivalent).
 - Acceptable percentile rankings in verbal and quantitative section of GRE or GMAT. No preference for one test over the other.
 - For International students: demonstrated proof of English proficiency, e.g., TOEFL score of 550 (paper-based), 213 (computer-based) or 79 (internet-based), or IELTS of 6.5 or above.
- Note: Admission to the program is selective. Meeting the minimum requirement does not guarantee the admission.*

Student Standing and Progress Toward the Degree

There are three categories of student status which reflect student progress toward the degree: "Conditionally Classified Graduate," "Classified Graduate," and "Advancement to Candidacy."

1. Students achieve "Conditionally Classified Graduate" status when they have been admitted to the MSBA degree program, but have not yet completed the prerequisites for "Classified Graduate" status in the M.S. in Business Analytics degree program.
2. Students achieve "Classified Graduate" status when they have satisfactorily completed the prerequisites for "Classified Graduate" status in the M.S. in Business Analytics degree program. (See "Prerequisites for "Classified Graduate Status" below.)
3. Students are Advanced to Candidacy when they have completed the 30 semester units meeting the following criteria:
 - All have a course grade of "C" or better.
 - Have a combined 3.0 grade point average (minimum) in all units taken to satisfy the requirements of the student's degree program.
 - Have no more than 6 units for extension and/or transfer credit (any extension and/or transfer credit must be approved by the Program Director) and/or coursework taken in "Unclassified Post-baccalaureate" status.
 - All units earned within the five years immediately preceding the completion of the requirements for the degree.
 - To be eligible for the MSBA, a student must have been Advanced to Candidacy (see Graduate Degree Information chapter of the catalog)
 - *Note: Students who fail to maintain progress by falling below a 3.0 GPA in their graduate courses for one or more consecutive semesters will be academically disqualified from the university.*

Prerequisites for "Classified Graduate" status

1. Students must satisfy the University Writing Skill Requirement (UWSR). The UWSR could be met as an undergraduate or graduate student at one of the CSU system campuses, with a score of 4.5 or better on the GMAT/GRE essay, by passing the Writing Skills Test (WST) or through coursework. For information on meeting the University Writing Skills Requirement, see the Testing Office website at www.csueastbay.edu/testing or call 510.885.3661.
2. Students must satisfactorily complete BAN 601 - Technology Fundamentals for Analytics with a grade of "B-" or better. Student can request to have this prerequisite waived.
3. Students must satisfactorily complete BAN 602 - Quantitative Fundamentals for Analytics with a grade of "B-" or better. Student can request to have this prerequisite waived.

Program Learning Outcomes

Students who graduate with a Master of Science in Business Analytics will be able to:

1. Demonstrate advanced knowledge and skills in using business analytics technology and applications.
2. Build expertise in quantitative methods and tools for business analytics.
3. Develop data analytics skills in making effective business decisions.
4. Develop effective written communication skills in conveying project ideas, activities, and findings.

Business Analytics Degree Requirements (30 units)

Note: Please see Errata page for corrections to this content.

Core Courses

Complete the following six (6) courses for 18 units:

- BAN 610 - Database Management and Applications *Units: 3*
- BAN 612 - Data Analytics *Units: 3*
- BAN 620 - Data Mining *Units: 3*
- BAN 622 - Data Warehousing and Business Intelligence *Units: 3*
- BAN 630 - Optimization Methods for Analytics *Units: 3*
- BAN 632 - Big Data Technology and Applications *Units: 3*

Elective Courses

Select three (3) courses from the following for 9 units:

- BAN 660 - Advanced Topics in Big Data *Units: 3*
- BAN 670 - Advanced Topics in Analytics *Units: 3*
- BAN 671 - Data Analytics with R *Units: 3*
- BAN 672 - Data Analytics with SAS *Units: 3*
- BAN 673 - Time Series Analytics *Units: 3*
- BAN 674 - Machine Learning for Business Analytics *Units: 3*
- BAN 675 - Text Mining and Social Media Analytics *Units: 3*
- BAN 676 - Deep Learning for Business Applications *Units: 3*
- MGMT 616 - People Analytics *Units: 3*
- MGMT 654 - Enterprise Planning and Control *Units: 3*
- MGMT 658 - Project Management *Units: 3*
- MGMT 662 - Operations Analytics *Units: 3*
- MKTG 612 - Marketing Analytics *Units: 3*

Capstone Requirement

The Business Analytics Capstone Project for 3 units is required for all MSBA students:

- BAN 693 - Business Analytics Capstone Project *Units: 3*

Other Graduate & Post-Baccalaureate Degree Requirements

In addition to departmental requirements, every student must also satisfy the University requirements for graduation as described throughout this catalog. These include the 70% unit residence requirement; the five-year rule on currency of subject matter; the minimum number of units in 600-level courses; the "C" minimum grade for each graduate course; the 3.00 cumulative grade point average; and the University Writing Skills Requirement.

Note: For information on meeting the University Writing Skills Requirement, see the Testing Office website at www.csueastbay.edu/testing or call (510) 885-3661.

Department Courses Listed by Course Type

Management Courses

Department of Management

Go to information for this department.

Courses

Information Technology Management

- ITM 330 - Business Applications Programming *Units: 3*
- ITM 331 - Database Management Systems *Units: 3*
- ITM 332 - Business Data Communications *Units: 3*
- ITM 336 - Information Systems Development and Management *Units: 3*
- ITM 338 - E-Business Technology and Management *Units: 3*
- ITM 398 - Internship *Units: 1-3*
- ITM 440 - Business Intelligence Systems *Units: 3*
- ITM 442 - Healthcare Information Systems *Units: 3*
- ITM 446 - Information Security *Units: 3*
- ITM 448 - Information Systems Analytics *Units: 3*
- ITM 449 - Advanced Topics in Information Technology *Units: 3*
- ITM 490 - Independent Study *Units: 1-4*
- ITM 497 - Issues in Information Technology Management *Units: 3*

Information Technology Management: Graduate

- ITM 690 - Independent Study *Units: 1-4*
- ITM 697 - Issues in Information Technology Management *Units: 3*
- ITM 698 - Internship *Units: 1-3*

Management

- BUS 110 - Fundamentals of Information Systems and Applications *Units: 3*
- BUS 310 - Organizational Behavior *Units: 3*
- BUS 320 - Business and Professional Ethics *Units: 3*
- BUS 340 - Information Technology Management *Units: 3*
- BUS 360 - Operations Management *Units: 3*
- BUS 370 - Business, Government and Society *Units: 3*
- BUS 385 - International Business *Units: 3*

- BUS 499 - Seminar in Strategic Business Management *Units: 3*
- MGMT 311 - Managing Diversity in the 21st Century Workplace *Units: 3*
- MGMT 312 - Human Resources Management *Units: 3*
- MGMT 314 - Leadership and Management *Units: 3*
- MGMT 316 - Training and Development *Units: 3*
- MGMT 318 - Employee Relations and Employment Law *Units: 3*
- MGMT 320 - Negotiation and Conflict Management *Units: 3*
- MGMT 350 - Decision Science *Units: 3 ; G.E./G.R. Area: B6*
- MGMT 362 - Service Management *Units: 3*
- MGMT 364 - Global Supply Chain Management *Units: 3*
- MGMT 365 - Enterprise Resource Planning and Control *Units: 3*
- MGMT 366 - Logistics Management *Units: 3*
- MGMT 368 - Quality and Process Improvement *Units: 3*
- MGMT 369 - Supply Management and E-Commerce *Units: 3*
- MGMT 398 - Internship *Units: 1-3*
- MGMT 400 - Seminar on Special Topics in Human Resource Management and Organizational

Behavior *Units: 3*

- MGMT 402 - Managing the Global Workplace *Units: 3*
- MGMT 404 - Staffing and Talent Management *Units: 3*
- MGMT 406 - Compensation and Reward Systems *Units: 3*
- MGMT 408 - HR Analytics *Units: 3*
- MGMT 450 - Project Management *Units: 3*
- MGMT 455 - Supply Chain Data Analytics *Units: 3*
- MGMT 460 - Healthcare Operations Management *Units: 3*
- MGMT 465 - Emerging Technologies in Operations *Units: 3*
- MGMT 490 - Independent Study *Units: 1-4*
- MGMT 497 - Issues in Management *Units: 3*

Management: Graduate

- BAN 601 - Technology Fundamentals for Analytics *Units: 3*
- BAN 602 - Quantitative Fundamentals for Analytics *Units: 3*
- BAN 610 - Database Management and Applications *Units: 3*
- BAN 612 - Data Analytics *Units: 3*
- BAN 620 - Data Mining *Units: 3*
- BAN 622 - Data Warehousing and Business Intelligence *Units: 3*
- BAN 630 - Optimization Methods for Analytics *Units: 3*
- BAN 632 - Big Data Technology and Applications *Units: 3*
- BAN 660 - Advanced Topics in Big Data *Units: 3*
- BAN 670 - Advanced Topics in Analytics *Units: 3*
- BAN 671 - Data Analytics with R *Units: 3*
- BAN 672 - Data Analytics with SAS *Units: 3*
- BAN 673 - Time Series Analytics *Units: 3*
- BAN 674 - Machine Learning for Business Analytics *Units: 3*
- BAN 675 - Text Mining and Social Media Analytics *Units: 3*
- BAN 676 - Deep Learning for Business Applications *Units: 3*
- BAN 693 - Business Analytics Capstone Project *Units: 3*
- BUS 601 - Leadership and Communication in Organizations *Units: 3*
- BUS 602 - Business Analytics for Managers *Units: 3*
- BUS 603 - Managing Complex Issues in Global Context *Units: 3 ; G.E./G.R. Area: UWSR*
- BUS 608 - Operations and Supply Chain Management *Units: 3*
- BUS 609 - Negotiation and Conflict Resolution *Units: 3*

- • BUS 693 - Strategic Management Capstone (Project) *Units: 3*
- • MGMT 610 - Strategic Human Resources Management *Units: 3*
- • MGMT 612 - Strategic Compensation and Reward Systems *Units: 3*
- • MGMT 614 - Talent Management *Units: 3*
- • MGMT 616 - People Analytics *Units: 3*
- • MGMT 618 - Human Resources and the Law *Units: 3*
- • MGMT 620 - Leading Teams and Managing Creativity *Units: 3*
- • MGMT 622 - Managing the Global Workplace *Units: 3*
- • MGMT 624 - Special Topics in Human Resource Management and Organizational Behavior
Units: 3
- • MGMT 650 - Global and Sustainable Supply Chains *Units: 3*
- • MGMT 652 - Service Operations Management *Units: 3*
- • MGMT 654 - Enterprise Planning and Control *Units: 3*
- • MGMT 656 - Quality and Lean Management *Units: 3*
- • MGMT 658 - Project Management *Units: 3*
- • MGMT 660 - Healthcare Operations Management *Units: 3*
- • MGMT 662 - Operations Analytics *Units: 3*
- • MGMT 670 - Strategic Industry and Competitive Analysis *Units: 3*
- • MGMT 675 - Innovation Strategy *Units: 3*
- • MGMT 676 - Global Strategy *Units: 3*
- • MGMT 677 - International Field Immersion *Units: 3*
- • MGMT 678 - Design Thinking for Leaders *Units: 3*
- • MGMT 680 - Sustainability Strategy *Units: 3*
- • MGMT 685 - Non-Market Strategy *Units: 3*
- • MGMT 688 - Business Opportunity Consulting Project *Units: 3*
- • MGMT 690 - Independent Study *Units: 1-4*
- • MGMT 697 - Issues in Management *Units: 3*
- • MGMT 698 - Internship *Units: 1-3*

Note: Please see Errata page for corrections to BAN course content.

Minor

Business Administration Minor

Minor Requirements (24 units)

The Business Administration minor provides students with a breadth of study in various areas of business and management. The emphasis is on acquiring general knowledge and skills in accounting, economics, finance, marketing, human resources, information technology and operations management. The minor program is designed to complement your primary field of study.

Note:

- Business Administration majors cannot declare this minor, but can choose the General Management concentration in the Bachelor of Science in Business Administration program.
- A course marked with the asterisk symbol (*) indicates that it has several other courses as its prerequisites which are not explicitly listed in this minor. Taking one or more courses marked with (*) may lead to a total of more than 24 units to complete the Business Administration minor.

- No more than 9 units used to fulfill other requirements (e.g., for general education, a major, concentrations, or other minors) can be counted toward the requirements for the Business Administration minor.
- Courses taken for CR/NC (credit/no credit) will not be counted toward the requirements for the Bachelor of Science in Business Administration (BSBA) program because courses for BSBA must be completed with a letter grade of "C-" or better ("C" or better for BUS 499).

Required Courses

Take the following 6 units:

- **ECON 200 - Principles of Microeconomics** *Units: 3 ; G.E./G.R. Area: D1-3; Social Justice*
- **ACCT 210 - Introduction to Financial Accounting** *Units: 3*

Elective Courses

Choose six (6) courses for 18 units from the following:

- **BUS 310 - Organizational Behavior** *Units: 3*
- **BUS 320 - Business and Professional Ethics** *Units: 3 (*)*
- **BUS 325 - Marketing Principles** *Units: 3*
- **BUS 330 - Financial Management** *Units: 3 (*)*
- **BUS 335 - Communications in Team Building** *Units: 3 (*)*
- **BUS 340 - Information Technology Management** *Units: 3*
- **BUS 360 - Operations Management** *Units: 3 (*)*
- **BUS 370 - Business, Government and Society** *Units: 3*
- **BUS 385 - International Business** *Units: 3*
- **OR ECON 385 - Global Economic Analysis** *Units: 3 (*)*
- **ECON 380 - Managerial Economics and Business Strategy** *Units: 3 ; G.E./G.R. Area: B6; Sustainability (*)*
- **MGMT 314 - Leadership and Management** *Units: 3*
- **MGMT 350 - Decision Science** *Units: 3 ; G.E./G.R. Area: B6 (*)*

Note: Of BUS 385 and ECON 385, if either course is used toward the requirements for the Business Administration minor, the other course should not be taken because it will not be counted toward the requirements for the Business Administration minor or for any other majors, concentrations, or minors offered by the College of Business and Economics.

Department Courses Listed by Course Type

Management Courses

Department of Management

Go to information for this department.

Courses

Information Technology Management

- ITM 330 - Business Applications Programming *Units: 3*
- ITM 331 - Database Management Systems *Units: 3*
- ITM 332 - Business Data Communications *Units: 3*
- ITM 336 - Information Systems Development and Management *Units: 3*
- ITM 338 - E-Business Technology and Management *Units: 3*
- ITM 398 - Internship *Units: 1-3*
- ITM 440 - Business Intelligence Systems *Units: 3*
- ITM 442 - Healthcare Information Systems *Units: 3*
- ITM 446 - Information Security *Units: 3*
- ITM 448 - Information Systems Analytics *Units: 3*
- ITM 449 - Advanced Topics in Information Technology *Units: 3*
- ITM 490 - Independent Study *Units: 1-4*
- ITM 497 - Issues in Information Technology Management *Units: 3*

Information Technology Management: Graduate

- ITM 690 - Independent Study *Units: 1-4*
- ITM 697 - Issues in Information Technology Management *Units: 3*
- ITM 698 - Internship *Units: 1-3*

Management

- BUS 110 - Fundamentals of Information Systems and Applications *Units: 3*
- BUS 310 - Organizational Behavior *Units: 3*
- BUS 320 - Business and Professional Ethics *Units: 3*
- BUS 340 - Information Technology Management *Units: 3*
- BUS 360 - Operations Management *Units: 3*
- BUS 370 - Business, Government and Society *Units: 3*
- BUS 385 - International Business *Units: 3*
- BUS 499 - Seminar in Strategic Business Management *Units: 3*
- MGMT 311 - Managing Diversity in the 21st Century Workplace *Units: 3*
- MGMT 312 - Human Resources Management *Units: 3*
- MGMT 314 - Leadership and Management *Units: 3*
- MGMT 316 - Training and Development *Units: 3*
- MGMT 318 - Employee Relations and Employment Law *Units: 3*
- MGMT 320 - Negotiation and Conflict Management *Units: 3*
- MGMT 350 - Decision Science *Units: 3 ; G.E./G.R. Area: B6*
- MGMT 362 - Service Management *Units: 3*
- MGMT 364 - Global Supply Chain Management *Units: 3*
- MGMT 365 - Enterprise Resource Planning and Control *Units: 3*
- MGMT 366 - Logistics Management *Units: 3*
- MGMT 368 - Quality and Process Improvement *Units: 3*
- MGMT 369 - Supply Management and E-Commerce *Units: 3*
- MGMT 398 - Internship *Units: 1-3*
- MGMT 400 - Seminar on Special Topics in Human Resource Management and Organizational Behavior *Units: 3*
- MGMT 402 - Managing the Global Workplace *Units: 3*

- MGMT 404 - Staffing and Talent Management *Units: 3*
- MGMT 406 - Compensation and Reward Systems *Units: 3*
- MGMT 408 - HR Analytics *Units: 3*
- MGMT 450 - Project Management *Units: 3*
- MGMT 455 - Supply Chain Data Analytics *Units: 3*
- MGMT 460 - Healthcare Operations Management *Units: 3*
- MGMT 465 - Emerging Technologies in Operations *Units: 3*
- MGMT 490 - Independent Study *Units: 1-4*
- MGMT 497 - Issues in Management *Units: 3*

Management: Graduate

- BAN 601 - Technology Fundamentals for Analytics *Units: 3*
- BAN 602 - Quantitative Fundamentals for Analytics *Units: 3*
- BAN 610 - Database Management and Applications *Units: 3*
- BAN 612 - Data Analytics *Units: 3*
- BAN 620 - Data Mining *Units: 3*
- BAN 622 - Data Warehousing and Business Intelligence *Units: 3*
- BAN 630 - Optimization Methods for Analytics *Units: 3*
- BAN 632 - Big Data Technology and Applications *Units: 3*
- BAN 660 - Advanced Topics in Big Data *Units: 3*
- BAN 670 - Advanced Topics in Analytics *Units: 3*
- BAN 671 - Data Analytics with R *Units: 3*
- BAN 672 - Data Analytics with SAS *Units: 3*
- BAN 673 - Time Series Analytics *Units: 3*
- BAN 674 - Machine Learning for Business Analytics *Units: 3*
- BAN 675 - Text Mining and Social Media Analytics *Units: 3*
- BAN 676 - Deep Learning for Business Applications *Units: 3*
- BAN 693 - Business Analytics Capstone Project *Units: 3*
- BUS 601 - Leadership and Communication in Organizations *Units: 3*
- BUS 602 - Business Analytics for Managers *Units: 3*
- BUS 603 - Managing Complex Issues in Global Context *Units: 3 ; G.E./G.R. Area: UWSR*
- BUS 608 - Operations and Supply Chain Management *Units: 3*
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- MGMT 614 - Talent Management *Units: 3*
- MGMT 616 - People Analytics *Units: 3*
- MGMT 618 - Human Resources and the Law *Units: 3*
- MGMT 620 - Leading Teams and Managing Creativity *Units: 3*
- MGMT 622 - Managing the Global Workplace *Units: 3*
- MGMT 624 - Special Topics in Human Resource Management and Organizational Behavior

Units: 3

- MGMT 650 - Global and Sustainable Supply Chains *Units: 3*
- MGMT 652 - Service Operations Management *Units: 3*
- MGMT 654 - Enterprise Planning and Control *Units: 3*
- MGMT 656 - Quality and Lean Management *Units: 3*
- MGMT 658 - Project Management *Units: 3*
- MGMT 660 - Healthcare Operations Management *Units: 3*
- MGMT 662 - Operations Analytics *Units: 3*
- MGMT 670 - Strategic Industry and Competitive Analysis *Units: 3*

- MGMT 675 - Innovation Strategy *Units: 3*
- MGMT 676 - Global Strategy *Units: 3*
- MGMT 677 - International Field Immersion *Units: 3*
- MGMT 678 - Design Thinking for Leaders *Units: 3*
- MGMT 680 - Sustainability Strategy *Units: 3*
- MGMT 685 - Non-Market Strategy *Units: 3*
- MGMT 688 - Business Opportunity Consulting Project *Units: 3*
- MGMT 690 - Independent Study *Units: 1-4*
- MGMT 697 - Issues in Management *Units: 3*
- MGMT 698 - Internship *Units: 1-3*

Note: Please see Errata page for corrections to BAN course content.

Information Technology Management Minor

Minor Requirements (18-21 units)

The Information Technology Management (ITM) minor provides students with the technical and managerial knowledge and skills needed to effectively integrate people, information and communication technologies with business and management processes. The minor program is designed to complement your primary field of study.

Note:

- Business Administration majors cannot declare this minor, but can choose the Information Technology Management concentration in the Bachelor of Science in Business Administration program.
- No more than 9 units used to fulfill other requirements (e.g., for general education, a major, concentrations, or other minors) can be counted toward the requirements for the Information Technology Management minor.
- Digital Proficiency is a prerequisite for BUS 340.
- Except for ITM 330, all other elective courses require BUS 340 as a prerequisite.
- Both ITM 440 and ITM 449 require ITM 330 as an additional prerequisite.
- Courses taken for CR/NC (credit/no credit) will not be counted toward the requirements for the Bachelor of Science in Business Administration (BSBA) program because courses for BSBA must be completed with a letter grade of "C-" or better ("C" or better for BUS 499).

Digital Proficiency

Digital proficiency can be fulfilled in one of the following ways for 0-3 units:

- Pass the Digital Proficiency test administered quarterly by the College of Business and Economics. Contact CBE Undergraduate Student Success & Service Center for details.
- Receive a total scaled score of 50 or higher on the "Information Systems" test administered by College Board's College-Level Examination Program (CLEP). Visit CLEP Information Systems (<https://clep.collegeboard.org/exam/information-systems-computers>) for details. Note that the total scaled scores fall between 20 and 80. Your total scaled score must be at least 50, which does not mean 50%.
- Or complete BUS 110 or an equivalent course, with a letter grade of "C-" or better:
- **BUS 110 - Fundamentals of Information Systems and Applications** *Units: 3*

Required Course

Take the following 3 units:

- **BUS 340 - Information Technology Management** *Units: 3*

Elective Courses

Choose five (5) courses for 15 units from the following:

- **ITM 330 - Business Applications Programming** *Units: 3*
- **ITM 331 - Database Management Systems** *Units: 3*
- **ITM 332 - Business Data Communications** *Units: 3*
- **ITM 336 - Information Systems Development and Management** *Units: 3*
- **ITM 338 - E-Business Technology and Management** *Units: 3*
- **ITM 440 - Business Intelligence Systems** *Units: 3*
- **ITM 442 - Healthcare Information Systems** *Units: 3*
- **ITM 446 - Information Security** *Units: 3*
- **ITM 448 - Information Systems Analytics** *Units: 3*
- **ITM 449 - Advanced Topics in Information Technology** *Units: 3*

Department Courses Listed by Course Type

Management Courses

Department of Management

Go to information for this department.

Courses

Information Technology Management

- **ITM 330 - Business Applications Programming** *Units: 3*
- **ITM 331 - Database Management Systems** *Units: 3*
- **ITM 332 - Business Data Communications** *Units: 3*
- **ITM 336 - Information Systems Development and Management** *Units: 3*
- **ITM 338 - E-Business Technology and Management** *Units: 3*
- **ITM 398 - Internship** *Units: 1-3*
- **ITM 440 - Business Intelligence Systems** *Units: 3*
- **ITM 442 - Healthcare Information Systems** *Units: 3*
- **ITM 446 - Information Security** *Units: 3*
- **ITM 448 - Information Systems Analytics** *Units: 3*
- **ITM 449 - Advanced Topics in Information Technology** *Units: 3*
- **ITM 490 - Independent Study** *Units: 1-4*
- **ITM 497 - Issues in Information Technology Management** *Units: 3*

Information Technology Management: Graduate

- **ITM 690 - Independent Study** *Units: 1-4*
- **ITM 697 - Issues in Information Technology Management** *Units: 3*

- ITM 698 - Internship *Units: 1-3*

Management

- BUS 110 - Fundamentals of Information Systems and Applications *Units: 3*
- BUS 310 - Organizational Behavior *Units: 3*
- BUS 320 - Business and Professional Ethics *Units: 3*
- BUS 340 - Information Technology Management *Units: 3*
- BUS 360 - Operations Management *Units: 3*
- BUS 370 - Business, Government and Society *Units: 3*
- BUS 385 - International Business *Units: 3*
- BUS 499 - Seminar in Strategic Business Management *Units: 3*
- MGMT 311 - Managing Diversity in the 21st Century Workplace *Units: 3*
- MGMT 312 - Human Resources Management *Units: 3*
- MGMT 314 - Leadership and Management *Units: 3*
- MGMT 316 - Training and Development *Units: 3*
- MGMT 318 - Employee Relations and Employment Law *Units: 3*
- MGMT 320 - Negotiation and Conflict Management *Units: 3*
- MGMT 350 - Decision Science *Units: 3 ; G.E./G.R. Area: B6*
- MGMT 362 - Service Management *Units: 3*
- MGMT 364 - Global Supply Chain Management *Units: 3*
- MGMT 365 - Enterprise Resource Planning and Control *Units: 3*
- MGMT 366 - Logistics Management *Units: 3*
- MGMT 368 - Quality and Process Improvement *Units: 3*
- MGMT 369 - Supply Management and E-Commerce *Units: 3*
- MGMT 398 - Internship *Units: 1-3*
- MGMT 400 - Seminar on Special Topics in Human Resource Management and Organizational Behavior *Units: 3*

- MGMT 402 - Managing the Global Workplace *Units: 3*
- MGMT 404 - Staffing and Talent Management *Units: 3*
- MGMT 406 - Compensation and Reward Systems *Units: 3*
- MGMT 408 - HR Analytics *Units: 3*
- MGMT 450 - Project Management *Units: 3*
- MGMT 455 - Supply Chain Data Analytics *Units: 3*
- MGMT 460 - Healthcare Operations Management *Units: 3*
- MGMT 465 - Emerging Technologies in Operations *Units: 3*
- MGMT 490 - Independent Study *Units: 1-4*
- MGMT 497 - Issues in Management *Units: 3*

Management: Graduate

- BAN 601 - Technology Fundamentals for Analytics *Units: 3*
- BAN 602 - Quantitative Fundamentals for Analytics *Units: 3*
- BAN 610 - Database Management and Applications *Units: 3*
- BAN 612 - Data Analytics *Units: 3*
- BAN 620 - Data Mining *Units: 3*
- BAN 622 - Data Warehousing and Business Intelligence *Units: 3*
- BAN 630 - Optimization Methods for Analytics *Units: 3*
- BAN 632 - Big Data Technology and Applications *Units: 3*
- BAN 660 - Advanced Topics in Big Data *Units: 3*
- BAN 670 - Advanced Topics in Analytics *Units: 3*
- BAN 671 - Data Analytics with R *Units: 3*
- BAN 672 - Data Analytics with SAS *Units: 3*

- • BAN 673 - Time Series Analytics *Units: 3*
- • BAN 674 - Machine Learning for Business Analytics *Units: 3*
- • BAN 675 - Text Mining and Social Media Analytics *Units: 3*
- • BAN 676 - Deep Learning for Business Applications *Units: 3*
- • BAN 693 - Business Analytics Capstone Project *Units: 3*
- • BUS 601 - Leadership and Communication in Organizations *Units: 3*
- • BUS 602 - Business Analytics for Managers *Units: 3*
- • BUS 603 - Managing Complex Issues in Global Context *Units: 3 ; G.E./G.R. Area: UWSR*
- • BUS 608 - Operations and Supply Chain Management *Units: 3*
- • BUS 609 - Negotiation and Conflict Resolution *Units: 3*
- • BUS 693 - Strategic Management Capstone (Project) *Units: 3*
- • MGMT 610 - Strategic Human Resources Management *Units: 3*
- • MGMT 612 - Strategic Compensation and Reward Systems *Units: 3*
- • MGMT 614 - Talent Management *Units: 3*
- • MGMT 616 - People Analytics *Units: 3*
- • MGMT 618 - Human Resources and the Law *Units: 3*
- • MGMT 620 - Leading Teams and Managing Creativity *Units: 3*
- • MGMT 622 - Managing the Global Workplace *Units: 3*
- • MGMT 624 - Special Topics in Human Resource Management and Organizational Behavior

Units: 3

- • MGMT 650 - Global and Sustainable Supply Chains *Units: 3*
- • MGMT 652 - Service Operations Management *Units: 3*
- • MGMT 654 - Enterprise Planning and Control *Units: 3*
- • MGMT 656 - Quality and Lean Management *Units: 3*
- • MGMT 658 - Project Management *Units: 3*
- • MGMT 660 - Healthcare Operations Management *Units: 3*
- • MGMT 662 - Operations Analytics *Units: 3*
- • MGMT 670 - Strategic Industry and Competitive Analysis *Units: 3*
- • MGMT 675 - Innovation Strategy *Units: 3*
- • MGMT 676 - Global Strategy *Units: 3*
- • MGMT 677 - International Field Immersion *Units: 3*
- • MGMT 678 - Design Thinking for Leaders *Units: 3*
- • MGMT 680 - Sustainability Strategy *Units: 3*
- • MGMT 685 - Non-Market Strategy *Units: 3*
- • MGMT 688 - Business Opportunity Consulting Project *Units: 3*
- • MGMT 690 - Independent Study *Units: 1-4*
- • MGMT 697 - Issues in Management *Units: 3*
- • MGMT 698 - Internship *Units: 1-3*

Note: Please see Errata page for corrections to BAN course content.

International Business Minor

Minor Requirements (21 units)

The International Business minor enables students to obtain knowledge and skills that can help them understand and manage businesses in a competitive global environment. The minor program is designed to complement your primary field of study.

Note:

- Business Administration majors cannot declare this minor.
- A course marked with the asterisk symbol (*) indicates that it has several other courses as its prerequisites which are not explicitly listed in this minor. Taking one or more courses marked with (*) may lead to a total of more than 21 units to complete the International Business minor.
- No more than 9 units used to fulfill other requirements (e.g., for general education, a major, concentrations, or other minors) can be counted toward the requirements for the International Business minor.
- Courses taken for CR/NC (credit/no credit) will not be counted toward the requirements for the Bachelor of Science in Business Administration (BSBA) program because courses for BSBA must be completed with a letter grade of "C-" or better ("C" or better for BUS 499).

Required Course

Choose one (1) of the two courses for 3 units:

- **BUS 385 - International Business** *Units: 3*
- **OR ECON 385 - Global Economic Analysis** *Units: 3 (*)*

Note:

- *Of BUS 385 and ECON 385, only one of the two courses is required.*
- *Of BUS 385 and ECON 385, if one of the two courses is used toward the requirements for the International Business minor, the other course should not be taken because it will not be counted toward the requirements for the International Business minor or for any other majors, concentrations, or minors offered by the College of Business and Economics.*

Elective Courses

Choose six (6) courses for 18 units from the following:

- **MGMT 311 - Managing Diversity in the 21st Century Workplace** *Units: 3*
- **MGMT 312 - Human Resources Management** *Units: 3*
- **MGMT 320 - Negotiation and Conflict Management** *Units: 3*
- **BUS 325 - Marketing Principles** *Units: 3*
- **ECON 350 - International Economics** *Units: 3 (*)*
- **MGMT 364 - Global Supply Chain Management** *Units: 3 (*)*
- **MGMT 402 - Managing the Global Workplace** *Units: 3*
- **MKTG 430 - International Marketing** *Units: 3*
- **FIN 460 - International Business Finance** *Units: 3 (*)*

Department Courses Listed by Course Type

Management Courses

Department of Management

Go to information for this department.

Courses

Information Technology Management

- ITM 330 - Business Applications Programming *Units: 3*
- ITM 331 - Database Management Systems *Units: 3*
- ITM 332 - Business Data Communications *Units: 3*
- ITM 336 - Information Systems Development and Management *Units: 3*
- ITM 338 - E-Business Technology and Management *Units: 3*
- ITM 398 - Internship *Units: 1-3*
- ITM 440 - Business Intelligence Systems *Units: 3*
- ITM 442 - Healthcare Information Systems *Units: 3*
- ITM 446 - Information Security *Units: 3*
- ITM 448 - Information Systems Analytics *Units: 3*
- ITM 449 - Advanced Topics in Information Technology *Units: 3*
- ITM 490 - Independent Study *Units: 1-4*
- ITM 497 - Issues in Information Technology Management *Units: 3*

Information Technology Management: Graduate

- ITM 690 - Independent Study *Units: 1-4*
- ITM 697 - Issues in Information Technology Management *Units: 3*
- ITM 698 - Internship *Units: 1-3*

Management

- BUS 110 - Fundamentals of Information Systems and Applications *Units: 3*
- BUS 310 - Organizational Behavior *Units: 3*
- BUS 320 - Business and Professional Ethics *Units: 3*
- BUS 340 - Information Technology Management *Units: 3*
- BUS 360 - Operations Management *Units: 3*
- BUS 370 - Business, Government and Society *Units: 3*
- BUS 385 - International Business *Units: 3*
- BUS 499 - Seminar in Strategic Business Management *Units: 3*
- MGMT 311 - Managing Diversity in the 21st Century Workplace *Units: 3*
- MGMT 312 - Human Resources Management *Units: 3*
- MGMT 314 - Leadership and Management *Units: 3*
- MGMT 316 - Training and Development *Units: 3*
- MGMT 318 - Employee Relations and Employment Law *Units: 3*
- MGMT 320 - Negotiation and Conflict Management *Units: 3*
- MGMT 350 - Decision Science *Units: 3 ; G.E./G.R. Area: B6*
- MGMT 362 - Service Management *Units: 3*
- MGMT 364 - Global Supply Chain Management *Units: 3*
- MGMT 365 - Enterprise Resource Planning and Control *Units: 3*
- MGMT 366 - Logistics Management *Units: 3*
- MGMT 368 - Quality and Process Improvement *Units: 3*
- MGMT 369 - Supply Management and E-Commerce *Units: 3*
- MGMT 398 - Internship *Units: 1-3*
- MGMT 400 - Seminar on Special Topics in Human Resource Management and Organizational Behavior *Units: 3*
- MGMT 402 - Managing the Global Workplace *Units: 3*
- MGMT 404 - Staffing and Talent Management *Units: 3*
- MGMT 406 - Compensation and Reward Systems *Units: 3*
- MGMT 408 - HR Analytics *Units: 3*
- MGMT 450 - Project Management *Units: 3*
- MGMT 455 - Supply Chain Data Analytics *Units: 3*

- MGMT 460 - Healthcare Operations Management *Units: 3*
- MGMT 465 - Emerging Technologies in Operations *Units: 3*
- MGMT 490 - Independent Study *Units: 1-4*
- MGMT 497 - Issues in Management *Units: 3*

Management: Graduate

- BAN 601 - Technology Fundamentals for Analytics *Units: 3*
- BAN 602 - Quantitative Fundamentals for Analytics *Units: 3*
- BAN 610 - Database Management and Applications *Units: 3*
- BAN 612 - Data Analytics *Units: 3*
- BAN 620 - Data Mining *Units: 3*
- BAN 622 - Data Warehousing and Business Intelligence *Units: 3*
- BAN 630 - Optimization Methods for Analytics *Units: 3*
- BAN 632 - Big Data Technology and Applications *Units: 3*
- BAN 660 - Advanced Topics in Big Data *Units: 3*
- BAN 670 - Advanced Topics in Analytics *Units: 3*
- BAN 671 - Data Analytics with R *Units: 3*
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- BAN 673 - Time Series Analytics *Units: 3*
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- BUS 601 - Leadership and Communication in Organizations *Units: 3*
- BUS 602 - Business Analytics for Managers *Units: 3*
- BUS 603 - Managing Complex Issues in Global Context *Units: 3 ; G.E./G.R. Area: UWSR*
- BUS 608 - Operations and Supply Chain Management *Units: 3*
- BUS 609 - Negotiation and Conflict Resolution *Units: 3*
- BUS 693 - Strategic Management Capstone (Project) *Units: 3*
- MGMT 610 - Strategic Human Resources Management *Units: 3*
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- MGMT 614 - Talent Management *Units: 3*
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- MGMT 618 - Human Resources and the Law *Units: 3*
- MGMT 620 - Leading Teams and Managing Creativity *Units: 3*
- MGMT 622 - Managing the Global Workplace *Units: 3*
- MGMT 624 - Special Topics in Human Resource Management and Organizational Behavior

Units: 3

- MGMT 650 - Global and Sustainable Supply Chains *Units: 3*
- MGMT 652 - Service Operations Management *Units: 3*
- MGMT 654 - Enterprise Planning and Control *Units: 3*
- MGMT 656 - Quality and Lean Management *Units: 3*
- MGMT 658 - Project Management *Units: 3*
- MGMT 660 - Healthcare Operations Management *Units: 3*
- MGMT 662 - Operations Analytics *Units: 3*
- MGMT 670 - Strategic Industry and Competitive Analysis *Units: 3*
- MGMT 675 - Innovation Strategy *Units: 3*
- MGMT 676 - Global Strategy *Units: 3*
- MGMT 677 - International Field Immersion *Units: 3*
- MGMT 678 - Design Thinking for Leaders *Units: 3*
- MGMT 680 - Sustainability Strategy *Units: 3*

- • MGMT 685 - Non-Market Strategy *Units: 3*
- • MGMT 688 - Business Opportunity Consulting Project *Units: 3*
- • MGMT 690 - Independent Study *Units: 1-4*
- • MGMT 697 - Issues in Management *Units: 3*
- • MGMT 698 - Internship *Units: 1-3*

Note: Please see Errata page for corrections to BAN course content.

Department of Marketing

The Department Office is located on the 4th floor of the VBT building, Room 442.

We are open 8:00AM - 6:00PM Monday through Friday.

Dept. Phone: (510) 885 - 3326

Faculty

Professor Emeritus

Jagdish Agrawal, Ph.D. State University of New York at Buffalo

Professors

Stevina Evuleocha, Ph.D. Ohio University

Sweety Law, Ph.D. Ohio State University

C. Joanna Lee (Chair), Ph.D. University of Texas at Austin

George S. Low, Ph.D. University of Colorado, Boulder

Cesar Maloles, Ph.D. City University of New York

Steve Ugbah, Ph.D. Ohio University

Lan Wu, Ph.D. Georgia Institute of Technology

Associate Professor

Yi He, Ph.D. University of Hawai'i

Assistant Professors

Judy Ma, Ph.D. Rensselaer Polytechnic Institute

Joon-Hee Oh, Ph.D. Georgia State University

Ya You, Ph.D. University of Central Florida

Mission Statement

Principal foundations of the Department of Marketing have been and continue to be quality instruction and scholarly activities of the faculty as well as the interaction between and among faculty, students, and the business community. The Department of Marketing fosters community connection and welcomes partnership opportunities that enhance educational experiences of our students.

About the Department

Use our university website link to learn more about what the Marketing Department has to offer.

- Office Hours & Teaching Schedule
- Degree Roadmaps
- Faculty & Staff
- Course Student Learning Outcomes
- And more...

Bachelor

Business Administration, B.S.: Entrepreneurship Concentration

Business Administration, B.S. Program (120 units)

Program Description

The College of Business and Economics, which offers the Bachelor of Science in Business Administration (B.S.B.A.) program, is committed to providing life-changing, quality business education to prepare students from diverse backgrounds to become successful business professionals and leaders. The B.S.B.A. program imparts students with the knowledge and skills necessary to understand the changing global business environment and to prepare students for success in their professional careers.

The B.S.B.A. major program is structured around a set of core courses enabling students to develop general business perspective and skills. Students are required to choose an area of specialization, i.e., concentration, corresponding to their desired career path. In addition, the program allows students flexibility to customize their specialization by choosing business elective courses. These electives may be chosen to further strengthen their preparation in their chosen concentration.

The undergraduate and the graduate programs in the College of Business and Economics are accredited by the Association to Advance Collegiate Schools of Business International (AACSB).

Program Learning Outcomes

Students graduating with a Bachelor of Science in Business Administration will be able to:

- Recognize and integrate foundation knowledge across functional areas.
- Apply critical thinking skills to solve business problems.
- Understand and apply quantitative methods and tools in evaluating business problems and making effective business decisions.
- Apply technology to analyze data and provide solutions to business problems.

- Apply effective oral communication skills in a diverse and global environment.
- Apply effective written communication skills in a diverse and global environment.
- Apply effective team skills to work in a diverse and global environment.
- Identify and assess ethical issues and properly articulate ethical decisions.

Expiration of Courses

Upper division major/concentration requirement courses will expire ten years after completion of the term in which they are earned. Expired courses cannot be used to fulfill degree requirements and must be replaced by current credits. Requests for waivers of the ten-year limit for extenuating circumstances, other than mere failure to register, are made to the department chair in which the course resides and the director of undergraduate programs.

Transfer of Courses

Upper division courses will only be considered for equivalency or transfer credit if they are from AACSB accredited institutions. Exceptions will be made for programs that have current and signed agreements with the College of Business and Economics.

Degree Requirements

The B.S. degree requires a total of 120 units. In addition to General Education courses and other graduation requirements, the Business Administration major requires three sets of courses: (I) lower division core courses, (II) upper division core courses, and (III) courses to fulfill concentration requirements.

Degree Requirements Unit-Outline

- A baccalaureate of science degree requires a total of 120 units:
 - The major requirements consists of 75 units;
 - General Education (GE) & Graduation Requirements (GR) consists of 57 units;
 - Free Electives may consist of 0 units (*actual number of free elective units may depend on GE/GR units*).

Note: It may be possible to double-count units within the graduation requirements or that a course may satisfy both a graduation requirement and a major requirement. Students should contact their program and AACE advisors for information.

Business Administration Major Requirements (75 units)

Note: Please see the Errata pages for corrections made to the major requirements effective for all concentrations.

Lower Division Core Courses

The following 18 units of lower-division coursework are required:

- ACCT 210 - Introduction to Financial Accounting *Units: 3*
- ACCT 215 - Introduction to Managerial Accounting *Units: 3*

- **ECON 200 - Principles of Microeconomics** *Units: 3 ; G.E./G.R. Area: D1-3; Social Justice*
- **ECON 205 - Principles of Macroeconomics** *Units: 3 ; G.E./G.R. Area: D1-3*
- **MATH 180 - Mathematics for Business with Calculus** *Units: 3 ; G.E./G.R. Area: B4*
- **STAT 110 - Elements of Statistics for Business and Economics** *Units: 3*

Upper Division Core Courses

The following 27 units of upper-division coursework is required:

- **BUS 310 - Organizational Behavior** *Units: 3*
- **BUS 325 - Marketing Principles** *Units: 3*
- **BUS 330 - Financial Management** *Units: 3*
- **BUS 335 - Communications in Team Building** *Units: 3*
- **BUS 360 - Operations Management** *Units: 3*
- **BUS 499 - Seminar in Strategic Business Management** *Units: 3*
- **ECON 380 - Managerial Economics and Business Strategy** *Units: 3 ; G.E./G.R. Area: B6; Sustainability*
- **MGMT 350 - Decision Science** *Units: 3 ; G.E./G.R. Area: B6*

Plus, choose one (1) course from the following:

- **BUS 385 - International Business** *Units: 3 OR*
- **ECON 385 - Global Economic Analysis** *Units: 3 Recommended for Business Economics concentration students*

Concentration Requirements

Students must select one (1) of the following concentrations for 30 units:

- Business Administration, B.S.: Accounting Concentration
- Business Administration, B.S.: Business Economics Concentration
- Business Administration, B.S.: Entrepreneurship Concentration
- Business Administration, B.S.: Finance Concentration (Available Online)
- Business Administration, B.S.: General Management Concentration (Available Online)
- Business Administration, B.S.: Human Resources Management & Organizational Behavior Concentration
- Business Administration, B.S.: Information Technology Management Concentration (Available Online)
- Business Administration, B.S.: Marketing Management Concentration
- Business Administration, B.S.: Operations and Supply Chain Management Concentration (Available Online)

Entrepreneurship Concentration

The Entrepreneurship concentration focuses on the management of existing small and medium size businesses, the procedures for establishing new ventures either as new firms or as subdivisions of existing firms, and the problems confronting new venture managers during the critical start-up period. The

concentration provides an excellent preparation to those who plan to have their own firm, to be employed by small or medium size business firms with high growth potential, or to work in positions within financial institutions, government agencies, management consulting firms, and marketing agencies that deal primarily with the needs and problems of small to medium sized firms.

Required Courses

The following 12 units are required:

- **BUS 220 - Legal Environment of Business** *Units: 3 ; G.E./G.R. Area: D1-3; Social Justice*
- **BUS 320 - Business and Professional Ethics** *Units: 3*
- **BUS 340 - Information Technology Management** *Units: 3*
- **BUS 370 - Business, Government and Society** *Units: 3*

Elective Courses

Select six (6) courses for 18 units from the following list:

- **ECON 431 - Economics of Innovation & Intellectual Property** *Units: 3*
- **FIN 470 - Entrepreneurial Finance** *Units: 3*
- **MGMT 320 - Negotiation and Conflict Management** *Units: 3*
- **MGMT 450 - Project Management** *Units: 3*
- **MKTG 310 - Marketing Research** *Units: 3*
- **MKTG 427 - Digital Marketing and Social Media** *Units: 3*
- **MKTG 485 - Establishing New Enterprises** *Units: 3*
- **MKTG 487 - Practicum in Small Business Management** *Units: 3*

Other Undergraduate Degree Requirements

In addition to major requirements, every student must also complete the University's baccalaureate requirements for graduation, which are described in the Requirements, Exams & Testing chapter of this catalog.

Department Courses Listed by Course Type

Marketing Courses

Department of Marketing

Go to information for this department.

Courses

Business

- BUS 335 - Communications in Team Building *Units: 3*
- **Marketing**
- BUS 325 - Marketing Principles *Units: 3*
- MKTG 305 - Business Communication *Units: 3 ; GE/GR Area: UWSR*
- MKTG 310 - Marketing Research *Units: 3*
- MKTG 312 - Marketing Analytics *Units: 3*
- MKTG 314 - Consumer Behavior *Units: 3*
- MKTG 398 - Internship *Units: 1-3*
- MKTG 415 - Corporate Communications *Units: 3*
- MKTG 420 - Product, Service, and Brand Management *Units: 3*
- MKTG 424 - Sales Management *Units: 3*
- MKTG 425 - Business-to-Business Marketing *Units: 3*
- MKTG 426 - Advertising and Promotion Management *Units: 3*
- MKTG 427 - Digital Marketing and Social Media *Units: 3*
- MKTG 430 - International Marketing *Units: 3*
- MKTG 440 - Marketing Strategy *Units: 3*
- MKTG 485 - Establishing New Enterprises *Units: 3*
- MKTG 487 - Practicum in Small Business Management *Units: 3*
- MKTG 490 - Independent Study *Units: 1-4*
- MKTG 497 - Seminar in Selected Marketing Topics *Units: 3*

Marketing: Graduate

- BUS 607 - Marketing Management *Units: 3*
- MKTG 610 - Marketing Research *Units: 3*
- MKTG 612 - Marketing Analytics *Units: 3*
- MKTG 614 - Buyer Behavior *Units: 3*
- MKTG 620 - Product and Brand Management *Units: 3*
- MKTG 622 - Pricing Management *Units: 3*
- MKTG 624 - Sales and Distribution Management *Units: 3*
- MKTG 626 - Integrated Marketing Communications *Units: 3*
- MKTG 630 - Seminar in International Marketing *Units: 3*
- MKTG 640 - Seminar in Marketing Strategy *Units: 3*
- MKTG 690 - Independent Study *Units: 1-4*
- MKTG 697 - Seminar in Selected Marketing Topics *Units: 3*
- MKTG 698 - Internship *Units: 1-3*

Business Administration, B.S.: Marketing Management Concentration

Business Administration, B.S. Program (120 units)

Program Description

The College of Business and Economics, which offers the Bachelor of Science in Business Administration (B.S.B.A.) program, is committed to providing life-changing, quality business education to prepare students from diverse backgrounds to become successful business professionals and leaders. The B.S.B.A. program imparts students with the knowledge and skills necessary to understand the changing global business environment and to prepare students for success in their professional careers.

The B.S.B.A. major program is structured around a set of core courses enabling students to develop general business perspective and skills. Students are required to choose an area of specialization, i.e., concentration, corresponding to their desired career path. In addition, the program allows students flexibility to customize their specialization by choosing business elective courses. These electives may be chosen to further strengthen their preparation in their chosen concentration.

The undergraduate and the graduate programs in the College of Business and Economics are accredited by the Association to Advance Collegiate Schools of Business International (AACSB).

Program Learning Outcomes

Students graduating with a Bachelor of Science in Business Administration will be able to:

- Recognize and integrate foundation knowledge across functional areas.
- Apply critical thinking skills to solve business problems.
- Understand and apply quantitative methods and tools in evaluating business problems and making effective business decisions.
- Apply technology to analyze data and provide solutions to business problems.
- Apply effective oral communication skills in a diverse and global environment.
- Apply effective written communication skills in a diverse and global environment.
- Apply effective team skills to work in a diverse and global environment.
- Identify and assess ethical issues and properly articulate ethical decisions.

Expiration of Courses

Upper division major/concentration requirement courses will expire ten years after completion of the term in which they are earned. Expired courses cannot be used to fulfill degree requirements and must be replaced by current credits. Requests for waivers of the ten-year limit for extenuating circumstances, other than mere failure to register, are made to the department chair in which the course resides and the director of undergraduate programs.

Transfer of Courses

Upper division courses will only be considered for equivalency or transfer credit if they are from AACSB accredited institutions. Exceptions will be made for programs that have current and signed agreements with the College of Business and Economics.

Degree Requirements

The B.S. degree requires a total of 120 units. In addition to General Education courses and other graduation requirements, the Business Administration major requires three sets of courses: (I) lower division core courses, (II) upper division core courses, and (III) courses to fulfill concentration requirements.

Degree Requirements Unit-Outline

- A baccalaureate of science degree requires a total of 120 units:
 - The major requirements consists of 75 units;
 - General Education (GE) & Graduation Requirements (GR) consists of 57 units;

- Free Electives may consist of 0 units (*actual number of free elective units may depend on GE/GR units*).
Note: It may be possible to double-count units within the graduation requirements or that a course may satisfy both a graduation requirement and a major requirement. Students should contact their program and AACE advisors for information.

Business Administration Major Requirements (75 units)

Note: Please see the Errata pages for corrections made to the major requirements effective for all concentrations.

Lower Division Core Courses

The following 18 units of lower-division coursework are required:

- ACCT 210 - Introduction to Financial Accounting *Units: 3*
- ACCT 215 - Introduction to Managerial Accounting *Units: 3*
- ECON 200 - Principles of Microeconomics *Units: 3 ; G.E./G.R. Area: D1-3; Social Justice*
- ECON 205 - Principles of Macroeconomics *Units: 3 ; G.E./G.R. Area: D1-3*
- MATH 180 - Mathematics for Business with Calculus *Units: 3 ; G.E./G.R. Area: B4*
- STAT 110 - Elements of Statistics for Business and Economics *Units: 3*

Upper Division Core Courses

The following 27 units of upper-division coursework is required:

- BUS 310 - Organizational Behavior *Units: 3*
- BUS 325 - Marketing Principles *Units: 3*
- BUS 330 - Financial Management *Units: 3*
- BUS 335 - Communications in Team Building *Units: 3*
- BUS 360 - Operations Management *Units: 3*
- BUS 499 - Seminar in Strategic Business Management *Units: 3*
- ECON 380 - Managerial Economics and Business Strategy *Units: 3 ; G.E./G.R. Area: B6; Sustainability*
- MGMT 350 - Decision Science *Units: 3 ; G.E./G.R. Area: B6*

Plus, choose one (1) course from the following:

- BUS 385 - International Business *Units: 3 OR*
- ECON 385 - Global Economic Analysis *Units: 3 Recommended for Business Economics concentration students*

Concentration Requirements

Students must select one (1) of the following concentrations for 30 units:

- Business Administration, B.S.: Accounting Concentration

- Business Administration, B.S.: Business Economics Concentration
- Business Administration, B.S.: Entrepreneurship Concentration
- Business Administration, B.S.: Finance Concentration (Available Online)
- Business Administration, B.S.: General Management Concentration (Available Online)
- Business Administration, B.S.: Human Resources Management & Organizational Behavior Concentration
- Business Administration, B.S.: Information Technology Management Concentration (Available Online)
- Business Administration, B.S.: Marketing Management Concentration
- Business Administration, B.S.: Operations and Supply Chain Management Concentration (Available Online)

Marketing Management Concentration

The task of marketing is to help an organization create and maintain satisfying relationships with its important customers. Students completing the coursework in the Marketing Management concentration acquire the knowledge and skills necessary to understand the needs of customers and the market, to design effective marketing strategies, and to successfully implement and monitor the chosen marketing program. Global competition coupled with technological advances forces both for-profit and nonprofit organizations to revitalize the marketing function for their success. The growing awareness of the importance of marketing has led to an increase in the number of marketing positions available. The concentration prepares students for careers in advertising and promotion, brand and product management, sales and sales management, retailing, non-profit, international marketing, marketing research, new product planning, marketing logistics and public relations.

Required Courses

The following 21 units are required:

- BUS 220 - Legal Environment of Business *Units: 3 ; G.E./G.R. Area: D1-3; Social Justice*
- BUS 320 - Business and Professional Ethics *Units: 3*
- BUS 340 - Information Technology Management *Units: 3*
- BUS 370 - Business, Government and Society *Units: 3*
- MKTG 310 - Marketing Research *Units: 3*
- MKTG 314 - Consumer Behavior *Units: 3*
- MKTG 440 - Marketing Strategy *Units: 3*

Elective Courses

Select three (3) courses for 9 units from the following list:

- MKTG 312 - Marketing Analytics *Units: 3*
- MKTG 415 - Corporate Communications *Units: 3*
- MKTG 420 - Product, Service, and Brand Management *Units: 3*
- MKTG 424 - Sales Management *Units: 3*
- MKTG 425 - Business-to-Business Marketing *Units: 3*
- MKTG 426 - Advertising and Promotion Management *Units: 3*

- MKTG 427 - Digital Marketing and Social Media *Units: 3*
- MKTG 430 - International Marketing *Units: 3*
- MKTG 497 - Seminar in Selected Marketing Topics *Units: 3*

Note: An introductory course in Psychology is strongly recommended. It may also satisfy lower division G.E. requirements.

Other Undergraduate Degree Requirements

In addition to major requirements, every student must also complete the University's baccalaureate requirements for graduation, which are described in the Requirements, Exams & Testing chapter of this catalog.

Department Courses Listed by Course Type

Marketing Courses

Department of Marketing

Go to information for this department.

Courses

Business

- BUS 335 - Communications in Team Building *Units: 3*

Marketing

- BUS 325 - Marketing Principles *Units: 3*
- MKTG 305 - Business Communication *Units: 3 ; GE/GR Area: UWSR*
- MKTG 310 - Marketing Research *Units: 3*
- MKTG 312 - Marketing Analytics *Units: 3*
- MKTG 314 - Consumer Behavior *Units: 3*
- MKTG 398 - Internship *Units: 1-3*
- MKTG 415 - Corporate Communications *Units: 3*
- MKTG 420 - Product, Service, and Brand Management *Units: 3*
- MKTG 424 - Sales Management *Units: 3*
- MKTG 425 - Business-to-Business Marketing *Units: 3*
- MKTG 426 - Advertising and Promotion Management *Units: 3*
- MKTG 427 - Digital Marketing and Social Media *Units: 3*
- MKTG 430 - International Marketing *Units: 3*
- MKTG 440 - Marketing Strategy *Units: 3*
- MKTG 485 - Establishing New Enterprises *Units: 3*
- MKTG 487 - Practicum in Small Business Management *Units: 3*
- MKTG 490 - Independent Study *Units: 1-4*
- MKTG 497 - Seminar in Selected Marketing Topics *Units: 3*

Marketing: Graduate

- BUS 607 - Marketing Management *Units: 3*
- MKTG 610 - Marketing Research *Units: 3*

- • MKTG 612 - Marketing Analytics *Units: 3*
- • MKTG 614 - Buyer Behavior *Units: 3*
- • MKTG 620 - Product and Brand Management *Units: 3*
- • MKTG 622 - Pricing Management *Units: 3*
- • MKTG 624 - Sales and Distribution Management *Units: 3*
- • MKTG 626 - Integrated Marketing Communications *Units: 3*
- • MKTG 630 - Seminar in International Marketing *Units: 3*
- • MKTG 640 - Seminar in Marketing Strategy *Units: 3*
- • MKTG 690 - Independent Study *Units: 1-4*
- • MKTG 697 - Seminar in Selected Marketing Topics *Units: 3*
- • MKTG 698 - Internship *Units: 1-3*

Master

Business Administration, M.B.A.: Marketing Management Concentration

Business Administration, M.B.A. Program

Mission

CBE provides life-changing, quality business education to prepare students from diverse backgrounds to become successful business professionals and leaders.

Vision and Values

We aspire to be a leading business school known for making a difference in the lives of our students and for our impact on the world. In support of our mission, we value:

- Ethical behavior and personal integrity
- Collegiality and mutual respect
- Collaboration for learning, scholarship, and community engagement
- Social and environmental responsibility
- Inclusive learning environment for a diverse student population
- Innovative thinking and a global mindset

All CBE programs are accredited by AACSB International - The Association to Advance Collegiate Schools of Business.

The College of Business and Economics offers the following master's degrees:

Master of Business Administration

M.B.A. students must select one of the following concentrations to fulfill the degree:

Analytics for Managers • Finance • General Business • Global Innovator • Human Resources and Organizational Behavior • Marketing Management • Operations and Supply Chain Management • Strategy and Innovation

Master of Science in Business Analytics

Program Description

The M.B.A. program supports students' career advancement by preparing them for positions of leadership in an increasingly diverse and globally competitive economy. The program is centered on the rigorous knowledge of the basic functional areas of business, an appreciation of management challenges in a global context, and opportunities to develop students' interpersonal and executive leadership skills. It also enables students to deepen and broaden their knowledge and skills through elective courses in an area of concentration. The program offers a range of formats to cater to the needs of full and part time students and students seeking an executive style MBA.

Career Opportunities

There is a strong growth in opportunities for management careers in both the general and the functional areas represented in the program's concentrations. The MBA program prepares graduates with strong foundation in general management knowledge and skills and gives them an extra edge in concentration areas that are growing in demand. Among the strong careers for those with MBA include Financial Manager, Health Services Manager, High-End Management Consultant, Human Resources Manager, Investment Banker, Investment Fund Manager, Marketing Manager, Marketing Researcher, Sales Manager, Operations and Supply Chain Manager, and Upper Management and Executive Leadership. The growing career opportunities for Finance, Marketing, HR, Operations, and Strategy validate the strength and the value of the CSUEB MBA program.

Admission

The M.B.A. is open to students who hold a baccalaureate degree from an accredited college or university. Each applicant is evaluated on the basis of past academic performance as reflected in undergraduate grade point average and subsequent coursework; and results of the Graduate Management Admissions Test (GMAT) in verbal, quantitative, and the "Index Score" that involves the total GMAT score, $\text{Index Score} = (\text{Upper Division GPA} \times 200) + \text{Total GMAT}$. Admission to the program is selective. The average GPA and GMAT score of applicants admitted to the program varies from year to year. For last year's admitted students profile, please visit the CBE Graduate Student Success and Services Office. GRE score, if provided, is accepted in place of GMAT. GMAT may be waived for applicants with five years or more work experience.

Proficiencies

All Conditionally Classified M.B.A. students must fulfill the University Writing Skills Requirement (UWSR) to achieve "Classified Graduate" status. The Writing Skills Requirement could be met as an undergraduate or graduate student at one of the CSU system campuses, with a score of 4.5 or better on the GMAT essay, by passing the Writing Skills Test (WST) or through coursework. Information about the Writing Skills Test and the courses can be found on the Testing Office website. The Website contains information on test dates, registration procedures and fees. Further information can be obtained from the Testing Office. If students have not satisfied the UWSR before they begin their graduate work, they must either take the WST or enroll in a first tier course by the end of their first semester in the program.

The MBA program is designed to provide essential business knowledge to students without assuming prior business background. Therefore no specific prerequisite courses are required, but proficiency in math and statistics is expected.

Student Standing and Progress Toward the Degree

There are three categories of student status which reflect student progress toward the degree: "Conditionally Classified Graduate," "Classified Graduate," and "Advancement to Candidacy."

- Students achieve "Conditionally Classified Graduate" status when they have been admitted to the MBA degree program, but have not yet completed the University Writing Skills Requirement.
- Students achieve "Classified Graduate" status when they have satisfactorily completed the University Writing Skills Requirement.
- Students are Advanced to Candidacy when they have completed the 42 semester units meeting the following criteria:
 - All have a course grade of "C" or better.
 - Complete a minimum of 30 units in residence after admission to the program.
 - Have a combined 3.0 grade point average (minimum) in all units taken to satisfy the requirements of the student's degree program.
 - Have no more than 12 units for extension and/or transfer credit (any extension and/or transfer credit must be approved by the Program Director) and/or coursework taken in "Unclassified Post-baccalaureate" status.
 - All units earned within the five years immediately preceding the completion of the requirements for the degree.
 - Have completed a satisfactory program of study as determined by the College of Business and Economics and the university.
- To be eligible for the M.B.A. a student must have been Advanced to Candidacy (see Graduate Degree Information chapter of the catalog)

Note: Students who fail to maintain progress by falling below a 3.0 GPA in their graduate courses for two or more consecutive semesters will be academically disqualified from the university.

Program Learning Outcomes

Students graduating with an M.B.A. from Cal State East Bay will be able to:

- Identify global business opportunities, analyze global business challenges, and develop business strategies.
- Demonstrate leadership and teamwork skills.
- Apply advanced written communication skills.
- Apply advanced oral communication skills.
- Demonstrate cross-cultural awareness and sensitivity in their interpersonal and group communication.
- Perform quantitative analyses and apply advanced technological tools to solve complex business problems.
- Analyze and integrate knowledge across disciplines to make managerial decisions to reach solutions to complex business problems.
- Recognize and analyze ethical issues in decision making.

Business Administration Degree Requirements (42 units)

Core Courses

The following 27 core units are required for all M.B.A. students:

- BUS 601 - Leadership and Communication in Organizations *Units: 3*
- BUS 602 - Business Analytics for Managers *Units: 3*
- BUS 603 - Managing Complex Issues in Global Context *Units: 3 ; G.E./G.R. Area:*
UWSR
- BUS 604 - Financial Accounting *Units: 3*
- BUS 605 - Corporate Financial Management *Units: 3*
- BUS 606 - Managerial Economics *Units: 3*
- BUS 607 - Marketing Management *Units: 3*
- BUS 608 - Operations and Supply Chain Management *Units: 3*
- BUS 609 - Negotiation and Conflict Resolution *Units: 3*

Concentrations

Students must select one (1) of the following 12-unit concentrations:

- Business Administration, M.B.A.: Analytics for Managers Concentration
- Business Administration, M.B.A.: Finance Concentration
- Business Administration, M.B.A.: General Business Concentration
- Business Administration, M.B.A.: Global Innovators Concentration (Self Support only)
- Business Administration, M.B.A.: Human Resources Management and Organizational Behavior
Concentration
- Business Administration, M.B.A.: Marketing Management Concentration
- Business Administration, M.B.A.: Operations and Supply Chain Management Concentration
- Business Administration, M.B.A.: Strategy & Innovation Concentration

Capstone Requirement

The following capstone is required for 3 units to complete the degree:

- BUS 693 - Strategic Management Capstone (Project) *Units: 3*

Marketing Management Concentration

Required Courses

Students select any four (4) courses, for 12 units, from the following:

- MKTG 610 - Marketing Research *Units: 3*
- MKTG 612 - Marketing Analytics *Units: 3*
- MKTG 614 - Buyer Behavior *Units: 3*
- MKTG 620 - Product and Brand Management *Units: 3*
- MKTG 622 - Pricing Management *Units: 3*
- MKTG 624 - Sales and Distribution Management *Units: 3*

- MKTG 626 - Integrated Marketing Communications *Units: 3*
- MKTG 630 - Seminar in International Marketing *Units: 3*
- MKTG 640 - Seminar in Marketing Strategy *Units: 3*
- MKTG 697 - Seminar in Selected Marketing Topics *Units: 3*

Other Graduate & Post-Baccalaureate Degree Requirements

In addition to departmental requirements, every student must also satisfy the University requirements for graduation as described throughout this catalog. These include the 70% unit residence requirement; the five-year rule on currency of subject matter; the minimum number of units in 600-level courses; the "C" minimum grade for each graduate course; the 3.00 cumulative grade point average; and the University Writing Skills Requirement.

Note: For information on meeting the University Writing Skills Requirement, see the Testing Office website at www.csueastbay.edu/testing or call (510) 885-3661.

Department Courses Listed by Course Type

Marketing Courses

Department of Marketing

Go to information for this department.

Courses

Business

- BUS 335 - Communications in Team Building *Units: 3*

Marketing

- BUS 325 - Marketing Principles *Units: 3*
- MKTG 305 - Business Communication *Units: 3 ; GE/GR Area: UWSR*
- MKTG 310 - Marketing Research *Units: 3*
- MKTG 312 - Marketing Analytics *Units: 3*
- MKTG 314 - Consumer Behavior *Units: 3*
- MKTG 398 - Internship *Units: 1-3*
- MKTG 415 - Corporate Communications *Units: 3*
- MKTG 420 - Product, Service, and Brand Management *Units: 3*
- MKTG 424 - Sales Management *Units: 3*
- MKTG 425 - Business-to-Business Marketing *Units: 3*
- MKTG 426 - Advertising and Promotion Management *Units: 3*
- MKTG 427 - Digital Marketing and Social Media *Units: 3*
- MKTG 430 - International Marketing *Units: 3*
- MKTG 440 - Marketing Strategy *Units: 3*
- MKTG 485 - Establishing New Enterprises *Units: 3*
- MKTG 487 - Practicum in Small Business Management *Units: 3*
- MKTG 490 - Independent Study *Units: 1-4*
- MKTG 497 - Seminar in Selected Marketing Topics *Units: 3*

Marketing: Graduate

- BUS 607 - Marketing Management *Units: 3*
- MKTG 610 - Marketing Research *Units: 3*
- MKTG 612 - Marketing Analytics *Units: 3*
- MKTG 614 - Buyer Behavior *Units: 3*
- MKTG 620 - Product and Brand Management *Units: 3*
- MKTG 622 - Pricing Management *Units: 3*
- MKTG 624 - Sales and Distribution Management *Units: 3*
- MKTG 626 - Integrated Marketing Communications *Units: 3*
- MKTG 630 - Seminar in International Marketing *Units: 3*
- MKTG 640 - Seminar in Marketing Strategy *Units: 3*
- MKTG 690 - Independent Study *Units: 1-4*
- MKTG 697 - Seminar in Selected Marketing Topics *Units: 3*
- MKTG 698 - Internship *Units: 1-3*

Minor

Advertising Minor

Minor Requirements (24 units)

Required Courses

Take the following 6 units. *Note: BUS 325 is a prerequisite for all MKTG courses listed in the Advertising minor.*

- BUS 325 - Marketing Principles *Units: 3*
- MKTG 426 - Advertising and Promotion Management *Units: 3*

Elective Courses

Take the following 18 units as outlined below:

Note: COMM 453 has a prerequisite that is not explicitly listed in the Advertising minor. Taking COMM 453 will lead to a total of more than 24 units to com. COMM 357 is a prerequisite for COMM 387 and COMM 453.

Choose two (2) courses for 6 units from the following:

- MKTG 310 - Marketing Research *Units: 3*
- MKTG 314 - Consumer Behavior *Units: 3*
- MKTG 415 - Corporate Communications *Units: 3*
- MKTG 427 - Digital Marketing and Social Media *Units: 3*

Choose three (3) courses for 12 units from the following:

- COMM 326 - Social Media and Social Change Literacies *Units: 4*
- COMM 357 - Principles of Advertising *Units: 4*
- COMM 387 - Advertising Design and Production *Units: 4*
- COMM 420 - Organizational Transformation *Units: 4*

- COMM 453 - Strategic Communication Campaigns *Units: 4*

Department Courses Listed by Course Type

Communication Courses

Department of Communication

Go to information for this department.

Courses

Communication

- COMM 100 - Public Speaking *Units: 3 ; G.E./G.R. Area: A1*
- COMM 104 - Interpersonal Communication *Units: 3 ; G.E./G.R. Area: A1*
- COMM 202 - Communication, Media and Culture *Units: 4*
- COMM 203 - Communication Theories *Units: 4*
- COMM 206 - New Media in the Digital Age *Units: 4*
- COMM 224 - Argumentation and Advocacy *Units: 4*
- COMM 235 - Famous Politics: Media, Celebrity and Social Life *Units: 3*
- COMM 240 - Visual Communication and Culture *Units: 4*
- COMM 255 - Queer Cultures: Knowledge and Literacy *Units: 3 ; G.E./G.R. Area: D1-3; Social Justice*
- COMM 256 - Persuasion Theory and Practice *Units: 4*
- COMM 260 - Documentary Film Studies *Units: 3 ; G.E./G.R. Area: C2*
- COMM 266 - Digital Media Production Abroad *Units: 3 ; G.E./G.R. Area: C2*
- COMM 300 - History and Criticism of Communication *Units: 4*
- COMM 304 - Quantitative Communication Research Methods *Units: 4*
- COMM 305 - Qualitative Communication Research Methods *Units: 4*
- COMM 310 - Introduction to Organizational Communication & Long Term Thinking *Units: 4*
- COMM 312 - Journalism History and Social Justice *Units: 4*
- COMM 314 - Journalism Theory and Practice *Units: 4*
- COMM 316 - Media and Government *Units: 4*
- COMM 318 - Journalism Law and Ethics *Units: 4*
- COMM 320 - Persuasion in Media *Units: 4*
- COMM 321 - Research in Persuasive Communication *Units: 4*
- COMM 323 - Communication of Difference *Units: 4*
- COMM 326 - Social Media and Social Change Literacies *Units: 4*
- COMM 328 - Multimedia Reporting & Writing I *Units: 4*
- COMM 330 - Critical/Cultural Studies *Units: 4*
- COMM 333 - Photojournalism *Units: 2*
- COMM 335 - Visual and Multimedia Storytelling I *Units: 2*
- COMM 357 - Principles of Advertising *Units: 4*
- COMM 358 - Principles of Public Relations *Units: 4*
- COMM 361 - Professional Speaking in Strategic Communication *Units: 4*
- COMM 362 - User Experience Research and Design *Units: 4*
- COMM 369 - Documentary History and Theory Abroad *Units: 4 ; G.E./G.R. Area: C4*
- COMM 387 - Advertising Design and Production *Units: 4*

- • COMM 388 - Public Relations Practice *Units: 4*
- • COMM 398 - Internship *Units: 1-4*
- • COMM 400 - Film, Communication and Culture *Units: 4*
- • COMM 410 - Organizing Cultures of Innovation and Empathy *Units: 4*
- • COMM 416 - Communication, Technology, and Social Change *Units: 4*
- • COMM 417 - Game Studies *Units: 4*
- • COMM 418 - Organizational Change, Creativity, and Innovation *Units: 4*
- • COMM 420 - Organizational Transformation *Units: 4*
- • COMM 425 - Digital Cultures *Units: 4*
- • COMM 428 - Multimedia Reporting and Writing II *Units: 4*
- • COMM 430 - Media Studies *Units: 4*
- • COMM 433 - Discourses of Difference *Units: 4*
- • COMM 435 - Visual and Multimedia Storytelling II *Units: 2*
- • COMM 453 - Strategic Communication Campaigns *Units: 4*
- • COMM 455 - Communication, Media, and Society *Units: 4*
- • COMM 461 - Popular Culture *Units: 4*
- • COMM 465 - Identity and Difference in Media *Units: 4*
- • COMM 470 - Communication Campaigns *Units: 4*
- • COMM 471 - Strategic Communication and Difference *Units: 4*
- • COMM 475 - Digital Organizational Communication *Units: 4*
- • COMM 480 - Moral Economies of Digital Media *Units: 4*
- • COMM 485 - Future of Media and Society *Units: 4*
- • COMM 488 - Conflict Management *Units: 4*
- • COMM 490 - Independent Study *Units: 1-4*
- • COMM 493 - Capstone: Social Justice Project *Units: 2*
- • COMM 495 - Journalism Practicum *Units: 2*
- • COMM 496 - Topics in Communication *Units: 4*
- • COMM 497 - Issues in Communication *Units: 4*

Communication: Graduate

- • COMM 600 - Introduction to Graduate Study *Units: 1*
- • COMM 601 - Theories in Communication *Units: 4*
- • COMM 602 - Critical Cultural Methods *Units: 4*
- • COMM 603 - Advanced Quantitative Research Methods *Units: 4*
- • COMM 604 - Advanced Qualitative Research Methods *Units: 4*
- • COMM 605 - Contemporary Rhetoric *Units: 4*
- • COMM 620 - Internship in Communication *Units: 1-4*
- • COMM 625 - Teaching Communication *Units: 4*
- • COMM 630 - Media Studies *Units: 4*
- • COMM 640 - Advanced Rhetorical Studies *Units: 4*
- • COMM 645 - Media and Globalization *Units: 4*
- • COMM 655 - Communication, Media, and Society *Units: 4*
- • COMM 665 - Identity and Difference in Media *Units: 4*
- • COMM 670 - Communication Campaigns *Units: 4*
- • COMM 675 - Digital Organizational Communication *Units: 4*
- • COMM 680 - Moral Economies of Digital Media *Units: 4*
- • COMM 685 - Future of Media and Society *Units: 4*
- • COMM 690 - Independent Study *Units: 1-4*
- • COMM 691 - University Thesis *Units: 1-6*
- • COMM 692 - Comprehensive Exams *Units: 2*
- • COMM 693 - Project *Units: 1-6*

- • COMM 696 - Topics in Communication *Units: 4*
- • COMM 697 - Issues In Communication *Units: 4*
- • COMM 698 - Internship *Units: 1-3*

Department Courses Listed by Course Type

Marketing Courses

Department of Marketing

Go to information for this department.

Courses

Business

- • BUS 335 - Communications in Team Building *Units: 3*

Marketing

- • BUS 325 - Marketing Principles *Units: 3*
- • MKTG 305 - Business Communication *Units: 3 ; GE/GR Area: UWSR*
- • MKTG 310 - Marketing Research *Units: 3*
- • MKTG 312 - Marketing Analytics *Units: 3*
- • MKTG 314 - Consumer Behavior *Units: 3*
- • MKTG 398 - Internship *Units: 1-3*
- • MKTG 415 - Corporate Communications *Units: 3*
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- • MKTG 485 - Establishing New Enterprises *Units: 3*
- • MKTG 487 - Practicum in Small Business Management *Units: 3*
- • MKTG 490 - Independent Study *Units: 1-4*
- • MKTG 497 - Seminar in Selected Marketing Topics *Units: 3*

Marketing: Graduate

- • BUS 607 - Marketing Management *Units: 3*
- • MKTG 610 - Marketing Research *Units: 3*
- • MKTG 612 - Marketing Analytics *Units: 3*
- • MKTG 614 - Buyer Behavior *Units: 3*
- • MKTG 620 - Product and Brand Management *Units: 3*
- • MKTG 622 - Pricing Management *Units: 3*
- • MKTG 624 - Sales and Distribution Management *Units: 3*
- • MKTG 626 - Integrated Marketing Communications *Units: 3*
- • MKTG 630 - Seminar in International Marketing *Units: 3*
- • MKTG 640 - Seminar in Marketing Strategy *Units: 3*

- • MKTG 690 - Independent Study *Units: 1-4*
- • MKTG 697 - Seminar in Selected Marketing Topics *Units: 3*
- • MKTG 698 - Internship *Units: 1-3*

Marketing Minor

Minor Requirements (24 units)

The Marketing minor is designed to provide professional understanding and technical skills needed for entry into specialized business functions related to marketing such as product management and branding, advertising and promotion, marketing research, sales, customer service, and marketing management. The minor program is designed to complement your primary field of study.

Note:

- *Business Administration majors cannot declare this minor, but can choose the Marketing Management concentration in the Bachelor of Science in Business Administration program.*
- *No more than 9 units used to fulfill other requirements (e.g., for general education, a major, concentrations, or other minors) can be counted toward the requirements for the Marketing minor.*
- *Courses taken for CR/NC (credit/no credit) will not be counted toward the requirements for the Bachelor of Science in Business Administration (BSBA) program because courses for BSBA must be completed with a letter grade of "C-" or better ("C" or better for BUS 499).*

Required Courses

The following 9 units are required. *Please Note: BUS 325 is a prerequisite for MKTG courses listed in the Marketing minor.*

- BUS 310 - Organizational Behavior *Units: 3*
- BUS 325 - Marketing Principles *Units: 3*
- ECON 200 - Principles of Microeconomics *Units: 3 ; G.E./G.R. Area: D1-3; Social Justice*

Elective Courses

Select five (5) courses for 15 units from the following list:

- MKTG 310 - Marketing Research *Units: 3*
- MKTG 312 - Marketing Analytics *Units: 3*
- MKTG 314 - Consumer Behavior *Units: 3*
- MKTG 415 - Corporate Communications *Units: 3*
- MKTG 420 - Product, Service, and Brand Management *Units: 3*
- MKTG 424 - Sales Management *Units: 3*
- MKTG 425 - Business-to-Business Marketing *Units: 3*
- MKTG 426 - Advertising and Promotion Management *Units: 3*
- MKTG 427 - Digital Marketing and Social Media *Units: 3*
- MKTG 430 - International Marketing *Units: 3*
- MKTG 440 - Marketing Strategy *Units: 3*

- MKTG 497 - Seminar in Selected Marketing Topics *Units: 3*

Department Courses Listed by Course Type

Marketing Courses

Department of Marketing

Go to information for this department.

Courses

Business

- • BUS 335 - Communications in Team Building *Units: 3*

Marketing

- • BUS 325 - Marketing Principles *Units: 3*
- • MKTG 305 - Business Communication *Units: 3 ; GE/GR Area: UWSR*
- • MKTG 310 - Marketing Research *Units: 3*
- • MKTG 312 - Marketing Analytics *Units: 3*
- • MKTG 314 - Consumer Behavior *Units: 3*
- • MKTG 398 - Internship *Units: 1-3*
- • MKTG 415 - Corporate Communications *Units: 3*
- • MKTG 420 - Product, Service, and Brand Management *Units: 3*
- • MKTG 424 - Sales Management *Units: 3*
- • MKTG 425 - Business-to-Business Marketing *Units: 3*
- • MKTG 426 - Advertising and Promotion Management *Units: 3*
- • MKTG 427 - Digital Marketing and Social Media *Units: 3*
- • MKTG 430 - International Marketing *Units: 3*
- • MKTG 440 - Marketing Strategy *Units: 3*
- • MKTG 485 - Establishing New Enterprises *Units: 3*
- • MKTG 487 - Practicum in Small Business Management *Units: 3*
- • MKTG 490 - Independent Study *Units: 1-4*
- • MKTG 497 - Seminar in Selected Marketing Topics *Units: 3*

Marketing: Graduate

- • BUS 607 - Marketing Management *Units: 3*
- • MKTG 610 - Marketing Research *Units: 3*
- • MKTG 612 - Marketing Analytics *Units: 3*
- • MKTG 614 - Buyer Behavior *Units: 3*
- • MKTG 620 - Product and Brand Management *Units: 3*
- • MKTG 622 - Pricing Management *Units: 3*
- • MKTG 624 - Sales and Distribution Management *Units: 3*
- • MKTG 626 - Integrated Marketing Communications *Units: 3*
- • MKTG 630 - Seminar in International Marketing *Units: 3*
- • MKTG 640 - Seminar in Marketing Strategy *Units: 3*
- • MKTG 690 - Independent Study *Units: 1-4*
- • MKTG 697 - Seminar in Selected Marketing Topics *Units: 3*
- • MKTG 698 - Internship *Units: 1-3*

Department of Mathematics

The Department Office is located on the 5th Floor of the Student-Faculty (SF) building, Room 570.

Hours Open: 8:00 a.m. to 5:00 p.m., Monday through Friday.

Dept. Phone: (510) 885-3434

Faculty

Professor Emeritus

Donald L. Wolitzer, Ph.D. Northeastern University

Associate Professor Emerita

Chung-Hsing OuYang, Ph.D. University of California, Berkeley

Professors

Kevin E. Callahan, Ph.D. University of California, San Diego

Julie S. Glass (Chair), Ph.D. University of California, Santa Cruz

Kathleen Hann, Ph.D. University of California, Davis

Massoud Malek, Ph.D. University of Houston

Julia Olkin, Ph.D. Rice University

Shirley Yap, Ph.D. University of Pennsylvania

Assistant Professors

Ehsan Kamalinejad, Ph.D. University of Toronto (Canada)

Jesus Oliver, Ph.D. University of California, San Diego

Andrea Arauza Rivera, Ph.D. University of California, Riverside

Graduate Coordinator: Julia Olkin

Department Statement

Mathematics is an intriguing, interesting and beautiful subject. It is also challenging and rigorous. Students are drawn to mathematics because of its clarity and the joy of discovering solutions to difficult problems. The Department of Mathematics offers strong Bachelor of Science and Master of Science

degrees that include a variety of courses intended to prepare students for a career in any mathematics related field or other areas that value quantitative and problem-solving skills. The program allows flexibility in breadth and depth where students can choose among courses with applied and pure emphases. The faculty are committed to creating a welcoming environment and providing opportunities for all students to explore mathematics within and beyond the classroom.

About the Department

Use our university website link to learn more about what the Mathematics Department has to offer.

- Advising
- Problem of the Month
- Awards & Scholarships
- Resources
- Math Department Placement Exam
- Student Clubs
- And more...

Bachelor

Mathematics, B.S.

Mathematics, B.S. Program (120 units)

Program Description

An undergraduate major in mathematics is one of the best preparations not only for studying advanced Mathematics, but also for graduate work in Computer Science, Statistics, Operations Research, Actuarial Science, and the Natural Sciences. Math majors are encouraged to pursue a minor or double major in another discipline that supports their goals or interests.

Mathematics is an intriguing, interesting and beautiful subject. It is also challenging and rigorous. Students are drawn to mathematics because of its clarity and the joy of discovering solutions to difficult problems. The Department of Mathematics offers a strong Bachelor of Science degree that includes a variety of courses intended to prepare students for a career in any mathematics related field or other areas that value quantitative and problem-solving skills. The program allows flexibility in breadth and depth where students can choose among courses with applied and pure emphases. The faculty are committed to creating a welcoming environment and providing opportunities for undergraduates to explore mathematics within and beyond the classroom. There are scholarships available for math majors to support their studies while at CSU East Bay.

Information for those considering a career as a high school teacher:

Making specific choices within the Math B.S. leads to a certification for students applying for a credential program to teach high school mathematics. This single subject certification is approved by the State Board of Education and offers a great opportunity for Math Majors at CSU East Bay. The certification allows a student to waive taking the three required math California Subject Examinations for Teachers (CSETs). The mathematics teaching pathway in the major is indicated throughout by asterisks (*) for

each required course. Upon reaching upper division status, interested students should speak with the Single Subject Advisor.

Career Opportunities

Mathematics opens the doors to many promising careers. Mathematician is consistently listed among the top ranked jobs in *Jobs Rated Almanac* from CareerCast and many of the highest earning careers require strong mathematical skills. Many positions such as engineer, doctor, nurse, computer scientist, actuarial scientist, etc. require knowledge of mathematics. The analytical and problem-solving skills students learn in mathematics can apply to many other disciplines as well. In particular, math majors score among the highest on the LSAT and GMAT for entry into law school or for advanced study in business. The math major prepares students for careers in academia, education, actuarial science, business, computing, engineering, law, medicine, physical and life sciences and public service. Profiles of successful math majors can be found on the Mathematical Association of America's Career Profiles webpage.

Program Learning Outcomes

1. Apply the definitions, techniques and theorems of mathematics.
2. Use mathematics to understand, explain and/or solve problems beyond a particular course.
3. Creatively conjecture and rigorously write, analyze and critique proofs.
4. Communicate mathematics effectively.

Degree Requirements Unit-Outline

- A baccalaureate of arts degree requires a total of 120 units:
 - The math major requirements consist of 49 units;
 - General Education (GE) & Graduation Requirements (GR) consists of 57 units;
 - Free Electives may consist of 14 units (*actual number of free elective units may depend on GE/GR units*).

Note: It may be possible to double-count units within the graduation requirements or that a course may satisfy both a graduation requirement and a major requirement. Students should contact their program and AACE advisors for information.

Mathematics Major Requirements (49 units)

Lower Division Core

Take the following four (4) lower-division courses for 13 units:

- MATH 130 - Calculus I *Units: 4 ; G.E./G.R. Area: B4*
- MATH 131 - Calculus II *Units: 3*
- MATH 230 - Calculus III *Units: 3*
- MATH 210 - Linear Algebra with Differential Equations *Units: 3*

Upper Division Core

Take the following six (6) upper-division courses for 18 units:

- MATH 300 - Introduction to Mathematical Proof *Units: 3*
- MATH 305 - Mathematical Software *Units: 3*
- MATH 310 - Linear Algebra Theory *Units: 3*
- MATH 320 - Abstract Algebra I *Units: 3*
- MATH 330 - Analysis I *Units: 3*
- MATH 493 - Senior Seminar *Units: 3*

Applied Mathematics Coursework

Choose two (2) courses from the following for 6 units:

- MATH 370 - Numerical Analysis I *Units: 3*
- MATH 375 - Differential Equations I *Units: 3 (*)*
- MATH 380 - Linear Programming *Units: 3*

Theoretical Mathematics Coursework

Choose two (2) courses from the following for 6 units:

- MATH 321 - Abstract Algebra II *Units: 3 (*)*
- MATH 331 - Analysis II *Units: 3*
- MATH 340 - Modern Geometry *Units: 3 (*)*

Elective Courses

Choose two (2) elective courses from the following for 6 units:

- MATH 360 - Number Theory *Units: 3 (*)*
- MATH 440 - Topics in Geometry *Units: 3*
- MATH 450 - Combinatorics *Units: 3*
- MATH 470 - Numerical Analysis II *Units: 3*
- MATH 475 - Differential Equations II *Units: 3*
- MATH 497 - Topics in Advanced Mathematics *Units: 3*
- Or any upper-division mathematics course(s) NOT used to fulfill other major requirements, except MATH 318, 319, 402, 403, or 406.
- Or any graduate level Math course.
- Or STAT 316 - Statistics and Probability for Science and Engineering *Units: 3 (*)*

Mathematics Teaching Pathway

Making specific course choices within the Math B.S. leads to a certification for students applying for a credential program to teach high school mathematics. The certification, *when accompanied by 45 hours of specific service requirements* (which also fulfills a state requirement for admission into a teacher credential program), allows a student to waive taking the three required math California Subject Examinations for

Teachers (CSETs). This major pathway is indicated throughout by asterisks (*) for each required course. Students should see the Single Subject Math Advisor when ready to plan for upper division courses.

Other Undergraduate Degree Requirements

In addition to major requirements, every student must also complete the University's baccalaureate requirements for graduation, which are described in the Requirements, Exams & Testing chapter of this catalog.

Department Courses Listed by Course Type

Mathematics Courses

Department of Mathematics

Go to information for this department.

Courses

Mathematics

- MATH 15 - College Algebra Workshop *Units: 1*
- MATH 18 - Mathematics for the Arts and Humanities Workshop *Units: 1*
- MATH 115 - College Algebra *Units: 3 ; G.E./G.R. Area: B4*
- MATH 118 - Mathematics for the Arts and Humanities *Units: 3 ; G.E./G.R. Area: B4*
- MATH 120 - Precalculus *Units: 3 ; G.E./G.R. Area: B4*
- MATH 121 - Precalculus Fundamentals *Units: 2*
- MATH 125 - Precalculus with Algebra *Units: 5 ; G.E./G.R. Area: B4*
- MATH 130 - Calculus I *Units: 4 ; G.E./G.R. Area: B4*
- MATH 131 - Calculus II *Units: 3*
- MATH 180 - Mathematics for Business with Calculus *Units: 3 ; G.E./G.R. Area: B4*
- MATH 210 - Linear Algebra with Differential Equations *Units: 3*
- MATH 211 - Discrete Structures *Units: 3*
- MATH 225 - Numerical Algorithms and Linear Algebra for Computer Science *Units: 3*
- MATH 230 - Calculus III *Units: 3*
- MATH 300 - Introduction to Mathematical Proof *Units: 3*
- MATH 305 - Mathematical Software *Units: 3*
- MATH 310 - Linear Algebra Theory *Units: 3*
- MATH 318 - Mathematical Contributions to Modern Society *Units: 3 ; G.E./G.R. Area: B6*
- MATH 319 - Mathematics in Art and Architecture *Units: 3 ; G.E./G.R. Area: B6*
- MATH 320 - Abstract Algebra I *Units: 3*
- MATH 321 - Abstract Algebra II *Units: 3*
- MATH 330 - Analysis I *Units: 3*
- MATH 331 - Analysis II *Units: 3*
- MATH 340 - Modern Geometry *Units: 3*
- MATH 360 - Number Theory *Units: 3*
- MATH 370 - Numerical Analysis I *Units: 3*
- MATH 375 - Differential Equations I *Units: 3*
- MATH 380 - Linear Programming *Units: 3*

- MATH 398 - Internship *Units: 1-3*
- MATH 402 - Mathematics for K-8 Educators I *Units: 4*
- MATH 403 - Mathematics for K-8 Educators II *Units: 4*
- MATH 406 - Advanced Study for School Mathematics *Units: 3*
- MATH 440 - Topics in Geometry *Units: 3*
- MATH 450 - Combinatorics *Units: 3*
- MATH 470 - Numerical Analysis II *Units: 3*
- MATH 475 - Differential Equations II *Units: 3*
- MATH 490 - Independent Study *Units: 1-4*
- MATH 493 - Senior Seminar *Units: 3*
- MATH 497 - Topics in Advanced Mathematics *Units: 3*

Mathematics: Graduate

- MATH 605 - Teaching Mathematics at the University Level *Units: 1*
- MATH 610 - Mathematical Modeling *Units: 4*
- MATH 620 - Algebra with Linear Algebra *Units: 4*
- MATH 640 - Complex Analysis *Units: 4*
- MATH 650 - Combinatorics *Units: 4*
- MATH 663 - Topics in Geometry *Units: 4*
- MATH 665 - Differential Geometry *Units: 4*
- MATH 667 - Machine Learning *Units: 4*
- MATH 670 - Numerical Analysis *Units: 4*
- MATH 671 - Topics in Numerical Analysis *Units: 4*
- MATH 675 - Differential Equations *Units: 4*
- MATH 676 - Topics in Differential Equations *Units: 4*
- MATH 680 - Optimization *Units: 4*
- MATH 681 - Topics in Optimization *Units: 4*
- MATH 685 - Topics in Graduate Mathematics *Units: 4*
- MATH 690 - Independent Study *Units: 1-4*
- MATH 692 - Graduate Mathematics Comprehensive Exam Capstone *Units: 2*

Master

Mathematics, M.S.

Mathematics, M.S. Program

Program Description

The Mathematics Department offers graduate study leading to the degree of Master of Science in Mathematics. The department prides itself on providing excellent instruction in advanced mathematics and maintaining a supportive learning environment for graduate students. Students in the program will be exposed to the fundamental areas of pure and applied mathematics and have the opportunity to explore specialized areas in depth. The completed program prepares students for careers in community college teaching, positions in industry that require knowledge of mathematics beyond the undergraduate level, as well as for advanced study toward a Ph.D. degree in mathematics or a related field.

The M.S. program features small classes that allow for close contact between students and faculty. Students interested in the M.S. degree program in Mathematics should speak with the Mathematics Graduate Coordinator.

Career Opportunities

A graduate degree in mathematics provides preparation for a broad range of careers including in academia and teaching, engineering, business, computing and management. An excellent resource can be found at the Mathematical Association of America Career Profiles web page. Many graduates of Cal State East Bay's M.S. program hold positions as community college mathematics professors. Some graduates have continued their studies at doctoral granting institutions by working towards a Ph.D. degree in mathematics or a related field such as operations research, statistics, physics, or economics. Still others have used their skills in careers in the local tech industry.

Admission Requirements

To enter the program with "Classified Graduate" status, a student must have completed undergraduate classes equivalent to the following CSU East Bay courses:

- CS 101 or Math 305 (Introduction to Computer Programming)
- Math 210 (Linear Algebra and Differential Equations)
- Math 300 (Introduction to Advanced Mathematics)
- Math 310 (Linear Algebra Theory and Applications)
- Math 320 (Algebra 1)
- Math 330 (Analysis 1)

with a grade point average of 3.0 ("B") or higher.

A student may enter the program with "Conditionally Classified Graduate" status while making up course or grade point deficiencies. Units taken to meet course deficiencies may not be applied toward the master's degree.

Student Standing and Progress Toward the Degree

A "Conditionally Classified Graduate" student who has no course deficiencies and has satisfied the University Writing Skills Requirement, should petition the department Graduate Coordinator for a change to "Classified Graduate" status.

A student with "Classified Graduate" status may apply for Advancement to Candidacy after completing at least 16 semester units towards the master's degree with a 3.0 ("B") or higher average.

Program Learning Outcomes

Students graduating with an M.S. in Mathematics from Cal State East Bay will be able to:

1. Evaluate and create proofs in graduate-level mathematics using the fundamental definitions and theorems.
2. Create solutions to problems using techniques in graduate-level mathematics.
3. Communicate graduate-level mathematics effectively.

Mathematics Degree Requirements (30 units)

Required Courses

Twenty (20) units are required from the following:

The following three (3) courses are required:

- MATH 620 - Algebra with Linear Algebra *Units: 4*
- MATH 630 - Real Analysis *Units: 4*
- MATH 670 - Numerical Analysis *Units: 4*

Plus take two (2) courses chosen from the following:

- MATH 640 - Complex Analysis *Units: 4*
- MATH 660 - Topology *Units: 4*
- MATH 675 - Differential Equations *Units: 4*
- MATH 680 - Optimization *Units: 4*

Elective Courses

A maximum of 8 units of coursework from the following electives may be counted toward the master's degree:

- Any graduate course in Mathematics
- Graduate level courses with advanced mathematical content with the approval of the Mathematics Graduate Committee.
- STAT 620 - Probability and Statistical Theory *Units: 4*
- STAT 630 - Statistical Methods *Units: 4*
- STAT 640 - Advanced Statistical Theory *Units: 4*

Capstone Requirement

The following capstone for 2 units is required to complete the program requirements:

- MATH 692 - Graduate Mathematics Comprehensive Exam Capstone *Units: 2*

Other Graduate & Post-Baccalaureate Degree Requirements

In addition to departmental requirements, every student must also satisfy the University requirements for graduation as described throughout this catalog. These include the 70% unit residence requirement; the five-year rule on currency of subject matter; the minimum number of units in 600-level courses; the "C" minimum grade for each graduate course; the 3.00 cumulative grade point average; and the University Writing Skills Requirement.

Note: For information on meeting the University Writing Skills Requirement, see the Testing Office website at www.csueastbay.edu/testing or call (510) 885-3661.

Department Courses Listed by Course Type

Mathematics Courses

Department of Mathematics

Go to information for this department.

Courses

Mathematics

- MATH 15 - College Algebra Workshop *Units: 1*
- MATH 18 - Mathematics for the Arts and Humanities Workshop *Units: 1*
- MATH 115 - College Algebra *Units: 3 ; G.E./G.R. Area: B4*
- MATH 118 - Mathematics for the Arts and Humanities *Units: 3 ; G.E./G.R. Area: B4*
- MATH 120 - Precalculus *Units: 3 ; G.E./G.R. Area: B4*
- MATH 121 - Precalculus Fundamentals *Units: 2*
- MATH 125 - Precalculus with Algebra *Units: 5 ; G.E./G.R. Area: B4*
- MATH 130 - Calculus I *Units: 4 ; G.E./G.R. Area: B4*
- MATH 131 - Calculus II *Units: 3*
- MATH 180 - Mathematics for Business with Calculus *Units: 3 ; G.E./G.R. Area: B4*
- MATH 210 - Linear Algebra with Differential Equations *Units: 3*
- MATH 211 - Discrete Structures *Units: 3*
- MATH 225 - Numerical Algorithms and Linear Algebra for Computer Science *Units: 3*
- MATH 230 - Calculus III *Units: 3*
- MATH 300 - Introduction to Mathematical Proof *Units: 3*
- MATH 305 - Mathematical Software *Units: 3*
- MATH 310 - Linear Algebra Theory *Units: 3*
- MATH 318 - Mathematical Contributions to Modern Society *Units: 3 ; G.E./G.R. Area: B6*
- MATH 319 - Mathematics in Art and Architecture *Units: 3 ; G.E./G.R. Area: B6*
- MATH 320 - Abstract Algebra I *Units: 3*
- MATH 321 - Abstract Algebra II *Units: 3*
- MATH 330 - Analysis I *Units: 3*
- MATH 331 - Analysis II *Units: 3*
- MATH 340 - Modern Geometry *Units: 3*
- MATH 360 - Number Theory *Units: 3*
- MATH 370 - Numerical Analysis I *Units: 3*
- MATH 375 - Differential Equations I *Units: 3*
- MATH 380 - Linear Programming *Units: 3*
- MATH 398 - Internship *Units: 1-3*
- MATH 402 - Mathematics for K-8 Educators I *Units: 4*
- MATH 403 - Mathematics for K-8 Educators II *Units: 4*
- MATH 406 - Advanced Study for School Mathematics *Units: 3*
- MATH 440 - Topics in Geometry *Units: 3*
- MATH 450 - Combinatorics *Units: 3*
- MATH 470 - Numerical Analysis II *Units: 3*
- MATH 475 - Differential Equations II *Units: 3*
- MATH 490 - Independent Study *Units: 1-4*
- MATH 493 - Senior Seminar *Units: 3*
- MATH 497 - Topics in Advanced Mathematics *Units: 3*

Mathematics: Graduate

- MATH 605 - Teaching Mathematics at the University Level *Units: 1*
- MATH 610 - Mathematical Modeling *Units: 4*

- MATH 620 - Algebra with Linear Algebra *Units: 4*
- MATH 640 - Complex Analysis *Units: 4*
- MATH 650 - Combinatorics *Units: 4*
- MATH 663 - Topics in Geometry *Units: 4*
- MATH 665 - Differential Geometry *Units: 4*
- MATH 667 - Machine Learning *Units: 4*
- MATH 670 - Numerical Analysis *Units: 4*
- MATH 671 - Topics in Numerical Analysis *Units: 4*
- MATH 675 - Differential Equations *Units: 4*
- MATH 676 - Topics in Differential Equations *Units: 4*
- MATH 680 - Optimization *Units: 4*
- MATH 681 - Topics in Optimization *Units: 4*
- MATH 685 - Topics in Graduate Mathematics *Units: 4*
- MATH 690 - Independent Study *Units: 1-4*
- MATH 692 - Graduate Mathematics Comprehensive Exam Capstone *Units: 2*

Minor

Mathematics Minor

Minor Requirements (19 units)

Lower Division Requirements

The following 10 units of lower-division coursework is required:

- MATH 130 - Calculus I *Units: 4 ; G.E./G.R. Area: B4*
- MATH 131 - Calculus II *Units: 3*
- MATH 210 - Linear Algebra with Differential Equations *Units: 3*

Upper Division Requirements

The following 9 units of upper-division coursework is required:

- MATH 300 - Introduction to Mathematical Proof *Units: 3*
- Plus, two (2) additional upper-division mathematics courses (excluding: MATH 318, MATH 319, MATH 402, MATH 403, or MATH 406).

Department Courses Listed by Course Type

Mathematics Courses

Department of Mathematics

Go to information for this department.

Courses

Mathematics

- MATH 15 - College Algebra Workshop *Units: 1*
- MATH 18 - Mathematics for the Arts and Humanities Workshop *Units: 1*
- MATH 115 - College Algebra *Units: 3 ; G.E./G.R. Area: B4*
- MATH 118 - Mathematics for the Arts and Humanities *Units: 3 ; G.E./G.R. Area: B4*
- MATH 120 - Precalculus *Units: 3 ; G.E./G.R. Area: B4*
- MATH 121 - Precalculus Fundamentals *Units: 2*
- MATH 125 - Precalculus with Algebra *Units: 5 ; G.E./G.R. Area: B4*
- MATH 130 - Calculus I *Units: 4 ; G.E./G.R. Area: B4*
- MATH 131 - Calculus II *Units: 3*
- MATH 180 - Mathematics for Business with Calculus *Units: 3 ; G.E./G.R. Area: B4*
- MATH 210 - Linear Algebra with Differential Equations *Units: 3*
- MATH 211 - Discrete Structures *Units: 3*
- MATH 225 - Numerical Algorithms and Linear Algebra for Computer Science *Units: 3*
- MATH 230 - Calculus III *Units: 3*
- MATH 300 - Introduction to Mathematical Proof *Units: 3*
- MATH 305 - Mathematical Software *Units: 3*
- MATH 310 - Linear Algebra Theory *Units: 3*
- MATH 318 - Mathematical Contributions to Modern Society *Units: 3 ; G.E./G.R. Area: B6*
- MATH 319 - Mathematics in Art and Architecture *Units: 3 ; G.E./G.R. Area: B6*
- MATH 320 - Abstract Algebra I *Units: 3*
- MATH 321 - Abstract Algebra II *Units: 3*
- MATH 330 - Analysis I *Units: 3*
- MATH 331 - Analysis II *Units: 3*
- MATH 340 - Modern Geometry *Units: 3*
- MATH 360 - Number Theory *Units: 3*
- MATH 370 - Numerical Analysis I *Units: 3*
- MATH 375 - Differential Equations I *Units: 3*
- MATH 380 - Linear Programming *Units: 3*
- MATH 398 - Internship *Units: 1-3*
- MATH 402 - Mathematics for K-8 Educators I *Units: 4*
- MATH 403 - Mathematics for K-8 Educators II *Units: 4*
- MATH 406 - Advanced Study for School Mathematics *Units: 3*
- MATH 440 - Topics in Geometry *Units: 3*
- MATH 450 - Combinatorics *Units: 3*
- MATH 470 - Numerical Analysis II *Units: 3*
- MATH 475 - Differential Equations II *Units: 3*
- MATH 490 - Independent Study *Units: 1-4*
- MATH 493 - Senior Seminar *Units: 3*
- MATH 497 - Topics in Advanced Mathematics *Units: 3*

Mathematics: Graduate

- MATH 605 - Teaching Mathematics at the University Level *Units: 1*
- MATH 610 - Mathematical Modeling *Units: 4*
- MATH 620 - Algebra with Linear Algebra *Units: 4*
- MATH 640 - Complex Analysis *Units: 4*
- MATH 650 - Combinatorics *Units: 4*
- MATH 663 - Topics in Geometry *Units: 4*
- MATH 665 - Differential Geometry *Units: 4*
- MATH 667 - Machine Learning *Units: 4*

- MATH 670 - Numerical Analysis *Units: 4*
- MATH 671 - Topics in Numerical Analysis *Units: 4*
- MATH 675 - Differential Equations *Units: 4*
- MATH 676 - Topics in Differential Equations *Units: 4*
- MATH 680 - Optimization *Units: 4*
- MATH 681 - Topics in Optimization *Units: 4*
- MATH 685 - Topics in Graduate Mathematics *Units: 4*
- MATH 690 - Independent Study *Units: 1-4*
- MATH 692 - Graduate Mathematics Comprehensive Exam Capstone *Units: 2*

Single Subject Matter Preparation Certificate Programs

Foundational Mathematics, Single Subject Certificate Program

Program Description

The CSUEB Foundational Mathematics Single Subject Matter Certificate Program includes a variety of courses intended to prepare students for a career as a middle school mathematics teacher. CSUEB's Foundational Mathematics Single Subject Matter program yields a State Board of Education approved certification. This certification allows a student to waive taking the two required math California Subject Examinations for Teachers (CSETs). If a student subsequently wishes to complete a California Secondary Teaching Credential in Foundational Mathematics, in addition to the required mathematics courses, a year of education courses and practice teaching is required.

Thirty three (33) semester units are required in the Foundational Mathematics Single Subject Certificate Program.

Core Coursework

The following twenty (20) units are required:

- MATH 120 - Precalculus *Units: 3 ; G.E./G.R. Area: B4*
- MATH 340 - Modern Geometry *Units: 3*
- MATH 402 - Mathematics for K-8 Educators I *Units: 4*
- MATH 403 - Mathematics for K-8 Educators II *Units: 4*
- MATH 406 - Advanced Study for School Mathematics *Units: 3*
- STAT 100 - Elements of Statistics and Probability *Units: 3 ; G.E./G.R. Area: B4*

Extended Study

The following thirteen (13) units of extended study are required:

- MATH 130 - Calculus I *Units: 4 ; G.E./G.R. Area: B4*
- MATH 131 - Calculus II *Units: 3*
- MATH 210 - Linear Algebra with Differential Equations *Units: 3*
- MATH 300 - Introduction to Mathematical Proof *Units: 3*

Department Courses Listed by Course Type

Mathematics Courses

Department of Mathematics

Go to information for this department.

Courses

Mathematics

- MATH 15 - College Algebra Workshop *Units: 1*
- MATH 18 - Mathematics for the Arts and Humanities Workshop *Units: 1*
- MATH 115 - College Algebra *Units: 3 ; G.E./G.R. Area: B4*
- MATH 118 - Mathematics for the Arts and Humanities *Units: 3 ; G.E./G.R. Area: B4*
- MATH 120 - Precalculus *Units: 3 ; G.E./G.R. Area: B4*
- MATH 121 - Precalculus Fundamentals *Units: 2*
- MATH 125 - Precalculus with Algebra *Units: 5 ; G.E./G.R. Area: B4*
- MATH 130 - Calculus I *Units: 4 ; G.E./G.R. Area: B4*
- MATH 131 - Calculus II *Units: 3*
- MATH 180 - Mathematics for Business with Calculus *Units: 3 ; G.E./G.R. Area: B4*
- MATH 210 - Linear Algebra with Differential Equations *Units: 3*
- MATH 211 - Discrete Structures *Units: 3*
- MATH 225 - Numerical Algorithms and Linear Algebra for Computer Science *Units: 3*
- MATH 230 - Calculus III *Units: 3*
- MATH 300 - Introduction to Mathematical Proof *Units: 3*
- MATH 305 - Mathematical Software *Units: 3*
- MATH 310 - Linear Algebra Theory *Units: 3*
- MATH 318 - Mathematical Contributions to Modern Society *Units: 3 ; G.E./G.R. Area: B6*
- MATH 319 - Mathematics in Art and Architecture *Units: 3 ; G.E./G.R. Area: B6*
- MATH 320 - Abstract Algebra I *Units: 3*
- MATH 321 - Abstract Algebra II *Units: 3*
- MATH 330 - Analysis I *Units: 3*
- MATH 331 - Analysis II *Units: 3*
- MATH 340 - Modern Geometry *Units: 3*
- MATH 360 - Number Theory *Units: 3*
- MATH 370 - Numerical Analysis I *Units: 3*
- MATH 375 - Differential Equations I *Units: 3*
- MATH 380 - Linear Programming *Units: 3*
- MATH 398 - Internship *Units: 1-3*
- MATH 402 - Mathematics for K-8 Educators I *Units: 4*
- MATH 403 - Mathematics for K-8 Educators II *Units: 4*
- MATH 406 - Advanced Study for School Mathematics *Units: 3*
- MATH 440 - Topics in Geometry *Units: 3*
- MATH 450 - Combinatorics *Units: 3*
- MATH 470 - Numerical Analysis II *Units: 3*
- MATH 475 - Differential Equations II *Units: 3*
- MATH 490 - Independent Study *Units: 1-4*
- MATH 493 - Senior Seminar *Units: 3*

- MATH 497 - Topics in Advanced Mathematics *Units: 3*
- Mathematics: Graduate**
 - MATH 605 - Teaching Mathematics at the University Level *Units: 1*
 - MATH 610 - Mathematical Modeling *Units: 4*
 - MATH 620 - Algebra with Linear Algebra *Units: 4*
 - MATH 640 - Complex Analysis *Units: 4*
 - MATH 650 - Combinatorics *Units: 4*
 - MATH 663 - Topics in Geometry *Units: 4*
 - MATH 665 - Differential Geometry *Units: 4*
 - MATH 667 - Machine Learning *Units: 4*
 - MATH 670 - Numerical Analysis *Units: 4*
 - MATH 671 - Topics in Numerical Analysis *Units: 4*
 - MATH 675 - Differential Equations *Units: 4*
 - MATH 676 - Topics in Differential Equations *Units: 4*
 - MATH 680 - Optimization *Units: 4*
 - MATH 681 - Topics in Optimization *Units: 4*
 - MATH 685 - Topics in Graduate Mathematics *Units: 4*
 - MATH 690 - Independent Study *Units: 1-4*
 - MATH 692 - Graduate Mathematics Comprehensive Exam Capstone *Units: 2*

Mathematics, Single Subject Matter Certificate Program

Program Discription

The CSUEB Mathematics Single Subject Matter Certificate Program includes a variety of courses intended to prepare students for a career as a high school mathematics teacher. CSUEB's Mathematics Single Subject Matter Program yields a State Board of Education approved certification. The certification allows a student to waive taking the three required math California Subject Examinations for Teachers (CSETs). A student need not be a mathematics major to complete this program; however, students who complete the mathematics major and select the courses designated for future teachers will have completed all of the required mathematics coursework for the Mathematics Single Subject Matter Program. In addition to the required mathematics courses, a year of education courses and practice teaching is required before the California Secondary Teaching Credential in Mathematics can be granted.

A minimum of forty-six (46) semester units are required in the Mathematics Single Subject Matter Certificate Program.

Core Coursework

The following 31 units of core coursework are required:

- MATH 120 - Precalculus *Units: 3 ; G.E./G.R. Area: B4*
- MATH 130 - Calculus I *Units: 4 ; G.E./G.R. Area: B4*
- MATH 131 - Calculus II *Units: 3*
- MATH 210 - Linear Algebra with Differential Equations *Units: 3*
- MATH 230 - Calculus III *Units: 3*
- MATH 320 - Abstract Algebra I *Units: 3*
- MATH 330 - Analysis I *Units: 3*

- MATH 340 - Modern Geometry *Units: 3*
- MATH 360 - Number Theory *Units: 3*
- STAT 316 - Statistics and Probability for Science and Engineering *Units: 3*

Extended Study

Fifteen (15) units of extended study coursework are required:

- MATH 300 - Introduction to Mathematical Proof *Units: 3*
- MATH 310 - Linear Algebra Theory *Units: 3*
- MATH 321 - Abstract Algebra II *Units: 3*
- MATH 375 - Differential Equations I *Units: 3*
- MATH 493 - Senior Seminar *Units: 3*

Field Experience

At least 45 hours of classroom experience in an instructional capacity is required.

- TED 301 - Introduction to Education *Units: 3* and/or other field experience approved by the Mathematics Subject Matter Preparation Adviser.

Department Courses Listed by Course Type

Mathematics Courses

Department of Mathematics

Go to information for this department.

Courses

Mathematics

- MATH 15 - College Algebra Workshop *Units: 1*
- MATH 18 - Mathematics for the Arts and Humanities Workshop *Units: 1*
- MATH 115 - College Algebra *Units: 3 ; G.E./G.R. Area: B4*
- MATH 118 - Mathematics for the Arts and Humanities *Units: 3 ; G.E./G.R. Area: B4*
- MATH 120 - Precalculus *Units: 3 ; G.E./G.R. Area: B4*
- MATH 121 - Precalculus Fundamentals *Units: 2*
- MATH 125 - Precalculus with Algebra *Units: 5 ; G.E./G.R. Area: B4*
- MATH 130 - Calculus I *Units: 4 ; G.E./G.R. Area: B4*
- MATH 131 - Calculus II *Units: 3*
- MATH 180 - Mathematics for Business with Calculus *Units: 3 ; G.E./G.R. Area: B4*
- MATH 210 - Linear Algebra with Differential Equations *Units: 3*
- MATH 211 - Discrete Structures *Units: 3*
- MATH 225 - Numerical Algorithms and Linear Algebra for Computer Science *Units: 3*
- MATH 230 - Calculus III *Units: 3*

- • MATH 300 - Introduction to Mathematical Proof *Units: 3*
- • MATH 305 - Mathematical Software *Units: 3*
- • MATH 310 - Linear Algebra Theory *Units: 3*
- • MATH 318 - Mathematical Contributions to Modern Society *Units: 3 ; G.E./G.R. Area: B6*
- • MATH 319 - Mathematics in Art and Architecture *Units: 3 ; G.E./G.R. Area: B6*
- • MATH 320 - Abstract Algebra I *Units: 3*
- • MATH 321 - Abstract Algebra II *Units: 3*
- • MATH 330 - Analysis I *Units: 3*
- • MATH 331 - Analysis II *Units: 3*
- • MATH 340 - Modern Geometry *Units: 3*
- • MATH 360 - Number Theory *Units: 3*
- • MATH 370 - Numerical Analysis I *Units: 3*
- • MATH 375 - Differential Equations I *Units: 3*
- • MATH 380 - Linear Programming *Units: 3*
- • MATH 398 - Internship *Units: 1-3*
- • MATH 402 - Mathematics for K-8 Educators I *Units: 4*
- • MATH 403 - Mathematics for K-8 Educators II *Units: 4*
- • MATH 406 - Advanced Study for School Mathematics *Units: 3*
- • MATH 440 - Topics in Geometry *Units: 3*
- • MATH 450 - Combinatorics *Units: 3*
- • MATH 470 - Numerical Analysis II *Units: 3*
- • MATH 475 - Differential Equations II *Units: 3*
- • MATH 490 - Independent Study *Units: 1-4*
- • MATH 493 - Senior Seminar *Units: 3*
- • MATH 497 - Topics in Advanced Mathematics *Units: 3*

Mathematics: Graduate

- • MATH 605 - Teaching Mathematics at the University Level *Units: 1*
- • MATH 610 - Mathematical Modeling *Units: 4*
- • MATH 620 - Algebra with Linear Algebra *Units: 4*
- • MATH 640 - Complex Analysis *Units: 4*
- • MATH 650 - Combinatorics *Units: 4*
- • MATH 663 - Topics in Geometry *Units: 4*
- • MATH 665 - Differential Geometry *Units: 4*
- • MATH 667 - Machine Learning *Units: 4*
- • MATH 670 - Numerical Analysis *Units: 4*
- • MATH 671 - Topics in Numerical Analysis *Units: 4*
- • MATH 675 - Differential Equations *Units: 4*
- • MATH 676 - Topics in Differential Equations *Units: 4*
- • MATH 680 - Optimization *Units: 4*
- • MATH 681 - Topics in Optimization *Units: 4*
- • MATH 685 - Topics in Graduate Mathematics *Units: 4*
- • MATH 690 - Independent Study *Units: 1-4*
- • MATH 692 - Graduate Mathematics Comprehensive Exam Capstone *Units: 2*

Single Subject Matter Preparation Program

Foundational-Level Mathematics, Single Subject Matter Preparation

Program Description

The CSUEB Single Subject Matter Program in Foundational Mathematics includes a variety of courses intended to prepare students for a career as a middle school mathematics teacher. CSUEB's Single Subject Matter Preparation Program in Foundational Mathematics yields a State Board of Education approved certification. The certification allows a student to waive taking the two required math California Subject Examinations for Teachers (CSETs). If a student subsequently wishes to complete a California Secondary Teaching Credential in Foundational-level Mathematics, in addition to the required mathematics courses, a year of education courses and practice teaching is required.

Thirty three (33) semester units are required in the Single Subject Matter Preparation Program in Foundational Mathematics.

Core Coursework

The following 20 units of core coursework are required:

- MATH 120 - Precalculus *Units: 3 ; G.E./G.R. Area: B4*
- MATH 340 - Modern Geometry *Units: 3*
- MATH 402 - Mathematics for K-8 Educators I *Units: 4*
- MATH 403 - Mathematics for K-8 Educators II *Units: 4*
- MATH 406 - Advanced Study for School Mathematics *Units: 3*
- STAT 100 - Elements of Statistics and Probability *Units: 3 ; G.E./G.R. Area: B4*

Extended Study

The following 13 units of extended study coursework are required:

- MATH 130 - Calculus I *Units: 4 ; G.E./G.R. Area: B4*
- MATH 131 - Calculus II *Units: 3*
- MATH 210 - Linear Algebra with Differential Equations *Units: 3*
- MATH 300 - Introduction to Mathematical Proof *Units: 3*

Department Courses Listed by Course Type

Mathematics Courses

Department of Mathematics

Go to information for this department.

Courses

Mathematics

- MATH 15 - College Algebra Workshop *Units: 1*
- MATH 18 - Mathematics for the Arts and Humanities Workshop *Units: 1*
- MATH 115 - College Algebra *Units: 3 ; G.E./G.R. Area: B4*
- MATH 118 - Mathematics for the Arts and Humanities *Units: 3 ; G.E./G.R. Area: B4*

- • MATH 120 - Precalculus *Units: 3 ; G.E./G.R. Area: B4*
- • MATH 121 - Precalculus Fundamentals *Units: 2*
- • MATH 125 - Precalculus with Algebra *Units: 5 ; G.E./G.R. Area: B4*
- • MATH 130 - Calculus I *Units: 4 ; G.E./G.R. Area: B4*
- • MATH 131 - Calculus II *Units: 3*
- • MATH 180 - Mathematics for Business with Calculus *Units: 3 ; G.E./G.R. Area: B4*
- • MATH 210 - Linear Algebra with Differential Equations *Units: 3*
- • MATH 211 - Discrete Structures *Units: 3*
- • MATH 225 - Numerical Algorithms and Linear Algebra for Computer Science *Units: 3*
- • MATH 230 - Calculus III *Units: 3*
- • MATH 300 - Introduction to Mathematical Proof *Units: 3*
- • MATH 305 - Mathematical Software *Units: 3*
- • MATH 310 - Linear Algebra Theory *Units: 3*
- • MATH 318 - Mathematical Contributions to Modern Society *Units: 3 ; G.E./G.R. Area: B6*
- • MATH 319 - Mathematics in Art and Architecture *Units: 3 ; G.E./G.R. Area: B6*
- • MATH 320 - Abstract Algebra I *Units: 3*
- • MATH 321 - Abstract Algebra II *Units: 3*
- • MATH 330 - Analysis I *Units: 3*
- • MATH 331 - Analysis II *Units: 3*
- • MATH 340 - Modern Geometry *Units: 3*
- • MATH 360 - Number Theory *Units: 3*
- • MATH 370 - Numerical Analysis I *Units: 3*
- • MATH 375 - Differential Equations I *Units: 3*
- • MATH 380 - Linear Programming *Units: 3*
- • MATH 398 - Internship *Units: 1-3*
- • MATH 402 - Mathematics for K-8 Educators I *Units: 4*
- • MATH 403 - Mathematics for K-8 Educators II *Units: 4*
- • MATH 406 - Advanced Study for School Mathematics *Units: 3*
- • MATH 440 - Topics in Geometry *Units: 3*
- • MATH 450 - Combinatorics *Units: 3*
- • MATH 470 - Numerical Analysis II *Units: 3*
- • MATH 475 - Differential Equations II *Units: 3*
- • MATH 490 - Independent Study *Units: 1-4*
- • MATH 493 - Senior Seminar *Units: 3*
- • MATH 497 - Topics in Advanced Mathematics *Units: 3*

Mathematics: Graduate

- • MATH 605 - Teaching Mathematics at the University Level *Units: 1*
- • MATH 610 - Mathematical Modeling *Units: 4*
- • MATH 620 - Algebra with Linear Algebra *Units: 4*
- • MATH 640 - Complex Analysis *Units: 4*
- • MATH 650 - Combinatorics *Units: 4*
- • MATH 663 - Topics in Geometry *Units: 4*
- • MATH 665 - Differential Geometry *Units: 4*
- • MATH 667 - Machine Learning *Units: 4*
- • MATH 670 - Numerical Analysis *Units: 4*
- • MATH 671 - Topics in Numerical Analysis *Units: 4*
- • MATH 675 - Differential Equations *Units: 4*
- • MATH 676 - Topics in Differential Equations *Units: 4*
- • MATH 680 - Optimization *Units: 4*
- • MATH 681 - Topics in Optimization *Units: 4*

- MATH 685 - Topics in Graduate Mathematics *Units: 4*
- MATH 690 - Independent Study *Units: 1-4*
- MATH 692 - Graduate Mathematics Comprehensive Exam Capstone *Units: 2*

Mathematics, Single Subject Matter Preparation

Program Description

The CSUEB Single Subject Matter Program in Mathematics includes a variety of courses intended to prepare students for a career as a high school mathematics teacher. CSUEB's Single Subject Matter Preparation Program yields a State Board of Education approved certification. The certification allows a student to waive taking the three required math California Subject Examinations for Teachers (CSETs).

A student need not be a mathematics major to complete this program; however, students who complete the mathematics major and select the courses designated for future teachers will have completed all of the required mathematics coursework for the Single Subject Matter Preparation Program. If a student subsequently wishes to complete a California Secondary Teaching Credential in Mathematics, in addition to the required mathematics courses, a year of education courses and practice teaching is required.

A minimum of forty six (46) semester units are required in the Single Subject Matter Preparation Program in Mathematics.

Core Coursework

The following 31 units of core coursework are required:

- MATH 120 - Precalculus *Units: 3 ; G.E./G.R. Area: B4*
- MATH 130 - Calculus I *Units: 4 ; G.E./G.R. Area: B4*
- MATH 131 - Calculus II *Units: 3*
- MATH 210 - Linear Algebra with Differential Equations *Units: 3*
- MATH 230 - Calculus III *Units: 3*
- MATH 320 - Abstract Algebra I *Units: 3*
- MATH 330 - Analysis I *Units: 3*
- MATH 340 - Modern Geometry *Units: 3*
- MATH 360 - Number Theory *Units: 3*
- STAT 316 - Statistics and Probability for Science and Engineering *Units: 3*

Extended Study

Fifteen (15) units of extended study coursework are required:

- MATH 300 - Introduction to Mathematical Proof *Units: 3*
- MATH 310 - Linear Algebra Theory *Units: 3*
- MATH 321 - Abstract Algebra II *Units: 3*
- MATH 375 - Differential Equations I *Units: 3*
- MATH 493 - Senior Seminar *Units: 3*

Field Experience

At least 45 hours of classroom experience in an instructional capacity is required.

- **TED 301 - Introduction to Education** *Units: 3* and/or other field experience approved by the Mathematics Subject Matter Preparation Adviser.

Department Courses Listed by Course Type

Mathematics Courses

Department of Mathematics

Go to information for this department.

Courses

Mathematics

- MATH 15 - College Algebra Workshop *Units: 1*
- MATH 18 - Mathematics for the Arts and Humanities Workshop *Units: 1*
- MATH 115 - College Algebra *Units: 3 ; G.E./G.R. Area: B4*
- MATH 118 - Mathematics for the Arts and Humanities *Units: 3 ; G.E./G.R. Area: B4*
- MATH 120 - Precalculus *Units: 3 ; G.E./G.R. Area: B4*
- MATH 121 - Precalculus Fundamentals *Units: 2*
- MATH 125 - Precalculus with Algebra *Units: 5 ; G.E./G.R. Area: B4*
- MATH 130 - Calculus I *Units: 4 ; G.E./G.R. Area: B4*
- MATH 131 - Calculus II *Units: 3*
- MATH 180 - Mathematics for Business with Calculus *Units: 3 ; G.E./G.R. Area: B4*
- MATH 210 - Linear Algebra with Differential Equations *Units: 3*
- MATH 211 - Discrete Structures *Units: 3*
- MATH 225 - Numerical Algorithms and Linear Algebra for Computer Science *Units: 3*
- MATH 230 - Calculus III *Units: 3*
- MATH 300 - Introduction to Mathematical Proof *Units: 3*
- MATH 305 - Mathematical Software *Units: 3*
- MATH 310 - Linear Algebra Theory *Units: 3*
- MATH 318 - Mathematical Contributions to Modern Society *Units: 3 ; G.E./G.R. Area: B6*
- MATH 319 - Mathematics in Art and Architecture *Units: 3 ; G.E./G.R. Area: B6*
- MATH 320 - Abstract Algebra I *Units: 3*
- MATH 321 - Abstract Algebra II *Units: 3*
- MATH 330 - Analysis I *Units: 3*
- MATH 331 - Analysis II *Units: 3*
- MATH 340 - Modern Geometry *Units: 3*
- MATH 360 - Number Theory *Units: 3*
- MATH 370 - Numerical Analysis I *Units: 3*
- MATH 375 - Differential Equations I *Units: 3*
- MATH 380 - Linear Programming *Units: 3*
- MATH 398 - Internship *Units: 1-3*
- MATH 402 - Mathematics for K-8 Educators I *Units: 4*
- MATH 403 - Mathematics for K-8 Educators II *Units: 4*
- MATH 406 - Advanced Study for School Mathematics *Units: 3*
- MATH 440 - Topics in Geometry *Units: 3*

- MATH 450 - Combinatorics *Units: 3*
- MATH 470 - Numerical Analysis II *Units: 3*
- MATH 475 - Differential Equations II *Units: 3*
- MATH 490 - Independent Study *Units: 1-4*
- MATH 493 - Senior Seminar *Units: 3*
- MATH 497 - Topics in Advanced Mathematics *Units: 3*

Mathematics: Graduate

- MATH 605 - Teaching Mathematics at the University Level *Units: 1*
- MATH 610 - Mathematical Modeling *Units: 4*
- MATH 620 - Algebra with Linear Algebra *Units: 4*
- MATH 640 - Complex Analysis *Units: 4*
- MATH 650 - Combinatorics *Units: 4*
- MATH 663 - Topics in Geometry *Units: 4*
- MATH 665 - Differential Geometry *Units: 4*
- MATH 667 - Machine Learning *Units: 4*
- MATH 670 - Numerical Analysis *Units: 4*
- MATH 671 - Topics in Numerical Analysis *Units: 4*
- MATH 675 - Differential Equations *Units: 4*
- MATH 676 - Topics in Differential Equations *Units: 4*
- MATH 680 - Optimization *Units: 4*
- MATH 681 - Topics in Optimization *Units: 4*
- MATH 685 - Topics in Graduate Mathematics *Units: 4*
- MATH 690 - Independent Study *Units: 1-4*
- MATH 692 - Graduate Mathematics Comprehensive Exam Capstone *Units: 2*

Department of Modern Languages and Literatures

The Department Office is located in the Student & Faculty Support (SF) building, Room 442

Office Hours: 8:00 a.m. - 5:00 p.m., Monday through Friday

Dept. Phone: (510) 885-3211

Faculty

Professor Emerita

L. Iliana Holbrook, Ph.D. University of California, Davis

Professors

Amy June Rowley, Ph.D. University of Wisconsin- Milwaukee

Meiling Wu (Chair), Ph.D. State University of New York at Binghamton

Associate Professors

Marcelo Paz, Ph.D. University of Cincinnati

Jesús Díaz-Caballero, Ph.D. University of Pittsburgh

Monique Manopoulos, Ph.D. University of Iowa

Lecturers

Juergen Hahn, Ph.D. Duke University

Shiori Hoke-Greller, M.A. San Francisco State University

David Fair, MDiv. Gateway Seminary

Huitzu Lu, Ph.D. University of Arizona

Gaelle Corvaisier, Ph.D. University La Sorbonne, Paris-France

Rie Hannon, M.A. Texas Tech University

Nancy Shuguli, M.A. Sonoma State University

Maria Del Mar Thomas, M.A. New Mexico State University

American Sign Language Coordinator: Amy June Rowley

Chinese & Japanese Coordinator: Meiling Wu

French Coordinator: Monique Manopoulos

Spanish Coordinator: Marcelo Paz

Department Statement

The Department of Modern Languages and Literatures (MLL) offers diverse courses in language, literature, cinema, culture. The rich array of courses are in American Sign Language, Chinese, French, Japanese, Spanish, and in English. The study leads to a Bachelor of Arts degree with majors in French and Spanish; Academic minors are available in American Sign Language, Chinese Language and Cultural Studies, French, Japanese, and Spanish. Students may utilize all languages and literatures courses offered in the department as part of a special major in various areas of study. The department faculty come from a wide variety of national and academic backgrounds and have traveled extensively in the countries whose languages they are teaching. Professors have lectured and published extensively in the United States, Asia, Europe and Latin America.

Language Laboratory

Currently, the Department of Modern Languages and Literatures does not have a language laboratory; however, the University Library has audio and video tape collections of instructional programs in the languages currently taught, including American Sign Language. This temporary facility is located at Media, Resources and Reserves in the library.

About the Department

Use our university website link to learn more about what the Modern Languages and Literatures Department has to offer.

- Achievements
- Facts
- Placement
- Beyond the Classroom
- Scholarships
- Partnerships
- And more...

Bachelor

French, B.A.

French, B.A. Program (120 units)

Program Description

The B.A. in French Offers students the ability to learn speaking writing, and analytical skills in French. It also introduces them to the various cultures of France, and the Francophone world. Students acquire an understanding of those countries' historical background and contemporary issues while developing their proficiency in French. The program fosters critical approaches to Francophone Literatures and Cultures. The program prepares students for an ever-changing world and offers career opportunities in International government, business, travel, communications, and other fields where the knowledge of more than one language is essential.

Career Opportunities

Students with a French Major can have careers in the following areas:

- Education: In addition to traditional elementary and High schools, there are many French-American schools in the Bay Area, and around the country
- Editing/publishing: Skills acquired allow students to be tuned to syntax and spelling in both French and English.
- Government agencies such as the CIA, the FBI, the United Nations and Consular Services
Bilingual Call Center Representative • Bilingual Technical Support Specialist • College Admissions Officer/Counselor • Communications • Community College/University Professor • Computer coding • ESL Teacher/Assistant abroad • Film/Video/Book editor • Intern for Major French Banks • International Business • International Trade Specialist • Interpretation • Librarian • Peace Corps • Research Assistant/Associate • Sales Coordinator for International Hotel Company • Tour Guide/Consultant • Translation • University Grant Writer

Program Learning Outcomes

- Oral Communication:

Students will be able to express themselves with sufficient accuracy and clarity to carry on conversations with native speakers and to give oral presentations appropriate to the undergraduate level. Students will be able to appreciate the various components of diverse cultures. Through in-class discussions and group work, students will also learn how to work collaboratively in an open-minded and respectful way. This will prepare them for their future workplace.

- **Written Communication:**

Students will be able to express themselves with a fair amount of sophistication, integrating research information while giving adequate credit to the sources used. They will also have the ability to convey critical ideas in both academic and social contexts in a respectful way.

- **Critical Thinking:**

Students will be familiar with major creative texts, and other cultural productions such as art, music, cinema, and history. They will also learn critical thinking, critical and analytical methods that are reinforced by their language skills. They should be able to relate a variety of cultural productions to the socio-cultural contexts in which they developed.

- **Multicultural Diversity:**

Students will demonstrate that they have acquired the knowledge of ethnic cultural diversity, and other forms of diversity such as gender, while developing an appreciation of contributions to the body of diverse cultural productions, such as art, music, cinema, and history.

- **Social Justice and Sustainability:**

Students will be able to act responsibly and recognize the historical and individual perspectives vs. the global. Students will demonstrate knowledge of global barriers to equality and social justice, identify and critically assess social, cultural, historical, political, national and/or global inequalities while acquiring the knowledge of multicultural diversity in more than one area. Students will be able to use multiple forms (essay, research, creative expression) and mediums of communication (on the ground, social media, television, radio) to investigate, participate in, and/or critique social justice movements in an open-minded and respectful manner.

Requirements

In addition to major requirements, every student must also complete the University requirements for graduation which are described in the Undergraduate Admission and Degree Information & FAQ chapter of this catalog.

Degree Requirements Unit-Outline

- A baccalaureate of arts degree requires a total of 120 units:
 - The major requirements consists of 40 units
 - General Education & Graduation Requirements consists of 57 units ;
 - Free Electives may consist of 23 units (actual number of free elective units may depend on GE/GR units).

Note: It may be possible to double-count units within the graduation requirements or that a course may satisfy both a graduation requirement and a major requirement. Students should contact their program and AACE advisors for information.

French Major Requirements (24-37 units)*

** (See the Errata chapter for unit information)*

Lower Division Coursework

Note: Students may be exempt from lower division courses. Students may challenge elementary and intermediate courses by exam.

Students who are not exempt must take all of the following four (4) courses for 16 units:

- MLL 121 - Elementary French I Units: 4 ; G.E./G.R. Area: C2
- MLL 122 - Elementary French II Units: 4 ; G.E./G.R. Area: C1
- MLL 221 - Intermediate French I Units: 4 ; G.E./G.R. Area: C2
- MLL 222 - Intermediate French II Units: 4

Upper Division Coursework

**Students must complete 21 units as outlined below. (*See Errata chapter for important information):*

All students must take the following course for 3 units:

- MLL 311 - Studies in Modern Languages and Literatures in English Units: 3 ; G.E./G.R. Area: D4

Students must take six (6) courses from the following for 18 units:

- MLL 321 - Cinema for French Conversation Units: 3 ; G.E./G.R. Area: C4
- MLL 322 - Cinema for French Composition Units: 3 ; G.E./G.R. Area: C4
- MLL 323 - Francophone Culture and Civilization through Cinema Units: 3 ; G.E./G.R. Area: C4
- MLL 324 - French/Francophone Literature in Translation Units: 3 ; G.E./G.R. Area: C4
- MLL 325 - Themes in French/Francophone Literature Units: 3 ; G.E./G.R. Area: C4
- MLL 326 - Sexuality and Feminism in Francophone Literature and Cinema Units: 3 ; G.E./G.R. Area: C4
- MLL 421 - French-English Translation Units: 3
- MLL 422 - LGBTQ Francophone Cinema Units: 3 ; G.E./G.R. Area: C4; Social Justice
- MLL 424 - Marginality in Francophone Literature Units: 3 ; G.E./G.R. Area: C4
- MLL 425 - Postcolonial Francophone Rap/Hip-Hop Units: 3 ; G.E./G.R. Area: C4; Social Justice
- MLL 428 - French for the Professions Units: 4
- MLL 429 - French for Reading Knowledge Units: 4

Other Undergraduate Degree Requirements

In addition to major requirements, every student must also complete the University's baccalaureate requirements for graduation, which are described in the Requirements, Exams & Testing chapter of this catalog.

Department Courses Listed by Course Type

Modern Languages and Literatures Courses

Department of Modern Languages and Literatures

Go to information for this department.

Courses

Modern Languages and Literatures

- MLL 211 - Multicultural Cinema *Units: 3 ; G.E./G.R. Area: C1*
- MLL 212 - Multiculturalism and Social Justice *Units: 3*
- MLL 311 - Studies in Modern Languages and Literatures in English *Units: 3 ; G.E./G.R. Area: D4*
- MLL 398 - Internship *Units: 1-3*
- MLL 490 - Independent Study *Units: 1-4*
- MLL 497 - Issues in Modern World Languages and Literatures *Units: 3*

Modern Languages and Literatures: American Sign Language

- MLL 131 - Elementary American Sign Language I *Units: 4 ; G.E./G.R. Area: C2*
- MLL 132 - Elementary American Sign Language II *Units: 4 ; G.E./G.R. Area: C1*
- MLL 231 - Intermediate American Sign Language I *Units: 4 ; G.E./G.R. Area: C2*
- MLL 232 - Intermediate American Sign Language II *Units: 4 ; G.E./G.R. Area: D1-3*
- MLL 331 - Advanced American Sign Language I *Units: 4*
- MLL 332 - Advanced American Sign Language II *Units: 4*
- MLL 333 - American Deaf Culture *Units: 3 ; G.E./G.R. Area: C4*
- MLL 335 - Classifiers in American Sign Language *Units: 3*
- MLL 431 - Linguistics in American Sign Language *Units: 3*
- MLL 435 - Fieldwork in American Sign Language Studies *Units: 3*

Modern Languages and Literatures: Chinese

- MLL 161 - Elementary Mandarin Chinese I *Units: 4 ; G.E./G.R. Area: C2*
- MLL 162 - Elementary Mandarin Chinese II *Units: 4 ; G.E./G.R. Area: C1*
- MLL 163 - Intensive Elementary Mandarin Chinese *Units: 4 ; G.E./G.R. Area: C1*
- MLL 261 - Intermediate Mandarin Chinese I *Units: 4 ; G.E./G.R. Area: C2*
- MLL 262 - Intermediate Mandarin Chinese II *Units: 4*
- MLL 361 - China Headline News: A Chinese-English Bilingual Study *Units: 4 ; G.E./G.R. Area: D4*
- MLL 362 - Chinese Folktales and Culture (Bilingual) *Units: 4 ; G.E./G.R. Area: C4*
- MLL 366 - New Chinese Cinema in English Translation *Units: 3 ; G.E./G.R. Area: D4; Social Justice*
- MLL 462 - Modern Chinese Short Stories in English Translation *Units: 3 ; G.E./G.R. Area: C4*
- MLL 465 - Chinese Wisdom and Ink-wash Animation in English Translation *Units: 3 ; G.E./G.R. Area: C4*

Modern Languages and Literatures: French

- MLL 121 - Elementary French I *Units: 4 ; G.E./G.R. Area: C2*
- MLL 122 - Elementary French II *Units: 4 ; G.E./G.R. Area: C1*
- MLL 221 - Intermediate French I *Units: 4 ; G.E./G.R. Area: C2*
- MLL 222 - Intermediate French II *Units: 4*
- MLL 321 - Cinema for French Conversation *Units: 3 ; G.E./G.R. Area: C4*
- MLL 322 - Cinema for French Composition *Units: 3 ; G.E./G.R. Area: C4*
- MLL 323 - Francophone Culture and Civilization through Cinema *Units: 3 ; G.E./G.R. Area: C4*
- MLL 324 - French/Francophone Literature in Translation *Units: 3 ; G.E./G.R. Area: C4*
- MLL 325 - Themes in French/Francophone Literature *Units: 3 ; G.E./G.R. Area: C4*
- MLL 326 - Sexuality and Feminism in Francophone Literature and Cinema *Units: 3 ; G.E./G.R.*

Area: C4

- MLL 421 - French-English Translation *Units: 3*
- MLL 422 - LGBTQ Francophone Cinema *Units: 3 ; G.E./G.R. Area: C4; Social Justice*
- MLL 423 - Survey of Francophone Literature and Cinema *Units: 3*
- MLL 424 - Marginality in Francophone Literature *Units: 3 ; G.E./G.R. Area: C4*
- MLL 425 - Postcolonial Francophone Rap/Hip-Hop *Units: 3 ; G.E./G.R. Area: C4; Social Justice*
- MLL 428 - French for the Professions *Units: 4*
- MLL 429 - French for Reading Knowledge *Units: 4*

Modern Languages and Literatures: Japanese

- MLL 151 - Elementary Japanese I *Units: 4 ; G.E./G.R. Area: C2*
- MLL 152 - Elementary Japanese II *Units: 4 ; G.E./G.R. Area: C1*
- MLL 153 - Intensive Elementary Japanese *Units: 4 ; G.E./G.R. Area: C1*
- MLL 251 - Intermediate Japanese I *Units: 4 ; G.E./G.R. Area: C2*
- MLL 252 - Intermediate Japanese II *Units: 4*
- MLL 351 - Japan Headline News: A Japanese-English Bilingual Study *Units: 4 ; G.E./G.R. Area:*

D4

- MLL 352 - Japanese Folktales and Culture (Bilingual) *Units: 4 ; G.E./G.R. Area: C4*
- MLL 358 - Experiencing Japanese Culture in English Translation *Units: 3 ; G.E./G.R. Area: D4;*

Social Justice

- MLL 452 - Modern Japanese Short Stories in English Translation *Units: 3 ; G.E./G.R. Area: C4*
- MLL 455 - Japanese Manga and Anime Masterpieces in English Translation *Units: 3 ; G.E./G.R.*

Area: C4

Modern Languages and Literatures: Spanish

- MLL 141 - Elementary Spanish I *Units: 4 ; G.E./G.R. Area: C2*
- MLL 142 - Elementary Spanish II *Units: 4 ; G.E./G.R. Area: C1*
- MLL 146 - Beginning Spanish for Healthcare Professionals *Units: 4*
- MLL 241 - Intermediate Spanish I *Units: 4 ; G.E./G.R. Area: C2*
- MLL 242 - Intermediate Spanish II *Units: 4*
- MLL 246 - Intermediate Spanish for Healthcare Professionals *Units: 4*
- MLL 341 - Spanish Conversation *Units: 4*
- MLL 342 - Spanish Conversation for Community Engagement *Units: 4*
- MLL 343 - Spanish Composition and Syntax *Units: 4*
- MLL 344 - Spanish Linguistics and Phonetics *Units: 4*
- MLL 345 - Spanish Textual Analysis in a Multicultural Context *Units: 4 ; G.E./G.R. Area: D4*
- MLL 447 - Latin American Global and Cultural Studies *Units: 3 ; G.E./G.R. Area: C4*
- MLL 448 - Spanish Global and Cultural Studies *Units: 3*
- MLL 449 - Selected Topics in Hispanic Studies *Units: 3*

Modern Languages and Literatures: Spanish-American Literature and Culture

- MLL 441 - Introduction to Spanish American Literature: 1492 to 1900 *Units: 3*

- MLL 442 - Introduction to Spanish American Literature: 1900 to the Present *Units: 3 ; G.E./G.R. Area: C4*
 - MLL 445 - Cultures of Spanish America *Units: 3 ; G.E./G.R. Area: C4*
- Modern Languages and Literatures: Spanish Peninsular Literature and Culture**
- MLL 443 - Survey Spanish Literature I: Medieval and Golden Age *Units: 3 ; G.E./G.R. Area: C4*
 - MLL 444 - Survey Spanish Literature II: 18th Century to Present *Units: 3*
 - MLL 446 - Cultures of Spain *Units: 3 ; G.E./G.R. Area: C4*

Spanish, B.A.

Spanish, B.A. Program (120 units)

Program Description

The program offers students the ability to learn speaking, writing, and analytical skills in Spanish and has been designed to provide students with the cultural understanding and the academic knowledge necessary for future pursuits in various careers, especially in teaching Spanish and Spanish American literature and culture at multiple educational levels.

Recently CSUEB was declared a Hispanic Serving Institution due to the demographic impact of the Latino/Hispanic population in California, particularly in the East Bay area. With the growing involvement of the United States in international business and the increasingly multicultural character of American society itself within the exponential growth of its Latino, Hispanic population, the importance of Spanish in nearly every kind of occupation is considerable. A major in Spanish, therefore, may lead to teaching careers and represent direct, practical assets in other fields such as business, industry and commerce, civil service, law, library science, media, science, health services, social work, travel, and tourism.

Program Learning Outcomes

Students graduating with a Spanish, B.A. from Cal State East Bay will be able to:

- **Oral Communication:** Express themselves in Spanish with sufficient accuracy and clarity to carry on conversations with native speakers and to give oral presentations appropriate to the undergraduate level. Students will be able to appreciate the various components of diverse cultures. Through in-class discussions and group work, students will also learn how to work collaboratively an open-minded and respectful way. This will prepare them for their future workplace.
- **Written Communication:** Express themselves in Spanish with a fair amount of sophistication, integrating research information while giving adequate credit to the sources used. They will also have the ability to convey critical ideas in both academic and social contexts in a respectful way.
- **Critical Thinking:** Be familiar with major creative texts, and other cultural productions such as art, music, cinema, and history. They will also learn critical thinking, critical and analytical methods that are reinforced by their language skills. They should be able to relate a variety of cultural productions to the socio-cultural contexts in which they developed.
- **Multicultural Diversity:** Demonstrate that they have acquired the knowledge of ethnic cultural diversity, and other forms of diversity such as gender, while developing an appreciation of contributions to the body of diverse cultural productions, such as art, music, cinema, and history.
- **Social Justice and Sustainability:** Act responsibly and recognize the historical and individual perspectives vs. the global. Students will demonstrate knowledge of global barriers to equality and social

justice, identify and critically assess social, cultural, historical, political, national and/or global inequalities while acquiring the knowledge of multicultural diversity in more than one area.

- Use multiple forms (essay, research, creative expression) and mediums of communication (on the ground, social media, television, radio) to investigate, participate in, and/or critique social justice movements in an open-minded and respectful manner.

Degree Requirements Unit-Outline

A baccalaureate of arts degree requires a total of 120 units:

- The major requirements consists of 47 units;
- General Education (GE) & Graduation Requirements (GR) consists of 57 units;
- Free Electives may consists of 16 units (actual number of free elective units may depend on GE/GR units).

Note: It may be possible to double-count units within the graduation requirements or that a course may satisfy both a graduation requirement and a major requirement. Students should contact their program and AACE advisors for information.

Spanish Major Requirements (24-41 units)

NOTE: Spanish majors should take all courses for a letter grade.

Lower Division Core

Students may be exempt from lower-division courses. Students may challenge elementary and intermediate courses by exam.

Students who are not exempt must take all four (4) of the following courses for 16 units:

- MLL 141 - Elementary Spanish I *Units: 4 ; G.E./G.R. Area: C2*
- MLL 142 - Elementary Spanish II *Units: 4 ; G.E./G.R. Area: C1*
- MLL 241 - Intermediate Spanish I *Units: 4 ; G.E./G.R. Area: C2*
- MLL 242 - Intermediate Spanish II *Units: 4*

Upper Division Core

Students must take three (3) upper division courses for 12 units from the following list:

- MLL 341 - Spanish Conversation *Units: 4*
- MLL 343 - Spanish Composition and Syntax *Units: 4*
- MLL 344 - Spanish Linguistics and Phonetics *Units: 4*
- MLL 345 - Spanish Textual Analysis in a Multicultural Context *Units: 4 ; G.E./G.R. Area: D4*

Upper Division Electives

Students must take four (4) courses from the following list for 12-13 units:

- MLL 342 - Spanish Conversation for Community Engagement *Units: 4*
- MLL 441 - Introduction to Spanish American Literature: 1492 to 1900 *Units: 3*
- MLL 442 - Introduction to Spanish American Literature: 1900 to the Present *Units: 3 ; G.E./G.R. Area: C4*
- MLL 443 - Survey Spanish Literature I: Medieval and Golden Age *Units: 3 ; G.E./G.R. Area: C4*
- MLL 444 - Survey Spanish Literature II: 18th Century to Present *Units: 3*
- MLL 445 - Cultures of Spanish America *Units: 3 ; G.E./G.R. Area: C4*
- MLL 446 - Cultures of Spain *Units: 3 ; G.E./G.R. Area: C4*
- MLL 447 - Latin American Global and Cultural Studies *Units: 3 ; G.E./G.R. Area: C4*
- MLL 448 - Spanish Global and Cultural Studies *Units: 3*
- MLL 497 - Issues in Modern World Languages and Literatures *Units: 3*

Other Undergraduate Degree Requirements

In addition to major requirements, every student must also complete the University's baccalaureate requirements for graduation, which are described in the Requirements, Exams & Testing chapter of this catalog.

Department Courses Listed by Course Type

Modern Languages and Literatures Courses

Department of Modern Languages and Literatures

Go to information for this department.

Courses

Modern Languages and Literatures

- MLL 211 - Multicultural Cinema *Units: 3 ; G.E./G.R. Area: C1*
- MLL 212 - Multiculturalism and Social Justice *Units: 3*
- MLL 311 - Studies in Modern Languages and Literatures in English *Units: 3 ; G.E./G.R. Area: D4*
- MLL 398 - Internship *Units: 1-3*
- MLL 490 - Independent Study *Units: 1-4*
- MLL 497 - Issues in Modern World Languages and Literatures *Units: 3*

Modern Languages and Literatures: American Sign Language

- MLL 131 - Elementary American Sign Language I *Units: 4 ; G.E./G.R. Area: C2*
- MLL 132 - Elementary American Sign Language II *Units: 4 ; G.E./G.R. Area: C1*
- MLL 231 - Intermediate American Sign Language I *Units: 4 ; G.E./G.R. Area: C2*
- MLL 232 - Intermediate American Sign Language II *Units: 4 ; G.E./G.R. Area: D1-3*
- MLL 331 - Advanced American Sign Language I *Units: 4*
- MLL 332 - Advanced American Sign Language II *Units: 4*

- MLL 333 - American Deaf Culture *Units: 3 ; G.E./G.R. Area: C4*
- MLL 335 - Classifiers in American Sign Language *Units: 3*
- MLL 431 - Linguistics in American Sign Language *Units: 3*
- MLL 435 - Fieldwork in American Sign Language Studies *Units: 3*

Modern Languages and Literatures: Chinese

- MLL 161 - Elementary Mandarin Chinese I *Units: 4 ; G.E./G.R. Area: C2*
- MLL 162 - Elementary Mandarin Chinese II *Units: 4 ; G.E./G.R. Area: C1*
- MLL 163 - Intensive Elementary Mandarin Chinese *Units: 4 ; G.E./G.R. Area: C1*
- MLL 261 - Intermediate Mandarin Chinese I *Units: 4 ; G.E./G.R. Area: C2*
- MLL 262 - Intermediate Mandarin Chinese II *Units: 4*
- MLL 361 - China Headline News: A Chinese-English Bilingual Study *Units: 4 ; G.E./G.R. Area:*

D4

- MLL 362 - Chinese Folktales and Culture (Bilingual) *Units: 4 ; G.E./G.R. Area: C4*
- MLL 366 - New Chinese Cinema in English Translation *Units: 3 ; G.E./G.R. Area: D4; Social*

Justice

- MLL 462 - Modern Chinese Short Stories in English Translation *Units: 3 ; G.E./G.R. Area: C4*
- MLL 465 - Chinese Wisdom and Ink-wash Animation in English Translation *Units: 3 ;*

G.E./G.R. Area: C4

Modern Languages and Literatures: French

- MLL 121 - Elementary French I *Units: 4 ; G.E./G.R. Area: C2*
- MLL 122 - Elementary French II *Units: 4 ; G.E./G.R. Area: C1*
- MLL 221 - Intermediate French I *Units: 4 ; G.E./G.R. Area: C2*
- MLL 222 - Intermediate French II *Units: 4*
- MLL 321 - Cinema for French Conversation *Units: 3 ; G.E./G.R. Area: C4*
- MLL 322 - Cinema for French Composition *Units: 3 ; G.E./G.R. Area: C4*
- MLL 323 - Francophone Culture and Civilization through Cinema *Units: 3 ; G.E./G.R. Area: C4*
- MLL 324 - French/Francophone Literature in Translation *Units: 3 ; G.E./G.R. Area: C4*
- MLL 325 - Themes in French/Francophone Literature *Units: 3 ; G.E./G.R. Area: C4*
- MLL 326 - Sexuality and Feminism in Francophone Literature and Cinema *Units: 3 ; G.E./G.R.*

Area: C4

- MLL 421 - French-English Translation *Units: 3*
- MLL 422 - LGBTQ Francophone Cinema *Units: 3 ; G.E./G.R. Area: C4; Social Justice*
- MLL 423 - Survey of Francophone Literature and Cinema *Units: 3*
- MLL 424 - Marginality in Francophone Literature *Units: 3 ; G.E./G.R. Area: C4*
- MLL 425 - Postcolonial Francophone Rap/Hip-Hop *Units: 3 ; G.E./G.R. Area: C4; Social Justice*
- MLL 428 - French for the Professions *Units: 4*
- MLL 429 - French for Reading Knowledge *Units: 4*

Modern Languages and Literatures: Japanese

- MLL 151 - Elementary Japanese I *Units: 4 ; G.E./G.R. Area: C2*
- MLL 152 - Elementary Japanese II *Units: 4 ; G.E./G.R. Area: C1*
- MLL 153 - Intensive Elementary Japanese *Units: 4 ; G.E./G.R. Area: C1*
- MLL 251 - Intermediate Japanese I *Units: 4 ; G.E./G.R. Area: C2*
- MLL 252 - Intermediate Japanese II *Units: 4*
- MLL 351 - Japan Headline News: A Japanese-English Bilingual Study *Units: 4 ; G.E./G.R. Area:*

D4

- MLL 352 - Japanese Folktales and Culture (Bilingual) *Units: 4 ; G.E./G.R. Area: C4*
- MLL 358 - Experiencing Japanese Culture in English Translation *Units: 3 ; G.E./G.R. Area: D4;*

Social Justice

- MLL 452 - Modern Japanese Short Stories in English Translation *Units: 3 ; G.E./G.R. Area: C4*

- MLL 455 - Japanese Manga and Anime Masterpieces in English Translation *Units: 3 ; G.E./G.R. Area: C4*

Modern Languages and Literatures: Spanish

- MLL 141 - Elementary Spanish I *Units: 4 ; G.E./G.R. Area: C2*
- MLL 142 - Elementary Spanish II *Units: 4 ; G.E./G.R. Area: C1*
- MLL 146 - Beginning Spanish for Healthcare Professionals *Units: 4*
- MLL 241 - Intermediate Spanish I *Units: 4 ; G.E./G.R. Area: C2*
- MLL 242 - Intermediate Spanish II *Units: 4*
- MLL 246 - Intermediate Spanish for Healthcare Professionals *Units: 4*
- MLL 341 - Spanish Conversation *Units: 4*
- MLL 342 - Spanish Conversation for Community Engagement *Units: 4*
- MLL 343 - Spanish Composition and Syntax *Units: 4*
- MLL 344 - Spanish Linguistics and Phonetics *Units: 4*
- MLL 345 - Spanish Textual Analysis in a Multicultural Context *Units: 4 ; G.E./G.R. Area: D4*
- MLL 447 - Latin American Global and Cultural Studies *Units: 3 ; G.E./G.R. Area: C4*
- MLL 448 - Spanish Global and Cultural Studies *Units: 3*
- MLL 449 - Selected Topics in Hispanic Studies *Units: 3*

Modern Languages and Literatures: Spanish-American Literature and Culture

- MLL 441 - Introduction to Spanish American Literature: 1492 to 1900 *Units: 3*
- MLL 442 - Introduction to Spanish American Literature: 1900 to the Present *Units: 3 ; G.E./G.R. Area: C4*
- MLL 445 - Cultures of Spanish America *Units: 3 ; G.E./G.R. Area: C4*

Modern Languages and Literatures: Spanish Peninsular Literature and Culture

- MLL 443 - Survey Spanish Literature I: Medieval and Golden Age *Units: 3 ; G.E./G.R. Area: C4*
- MLL 444 - Survey Spanish Literature II: 18th Century to Present *Units: 3*
- MLL 446 - Cultures of Spain *Units: 3 ; G.E./G.R. Area: C4*

Minor

American Sign Language Minor

Minor Requirements (15-27 units)

Students may be exempt from lower division courses and may challenge elementary and intermediate courses by exam. Students who test out of all of the lower division courses will be required to take additional upper division elective courses to meet the 15 unit minimum for the minor.

Lower Division Core

The lower-division core consists of 0-16 units. Students who are not exempt must take four (4) of the following courses for 16 units:

- MLL 131 - Elementary American Sign Language I *Units: 4 ; G.E./G.R. Area: C2*
- MLL 132 - Elementary American Sign Language II *Units: 4 ; G.E./G.R. Area: C1*
- MLL 231 - Intermediate American Sign Language I *Units: 4 ; G.E./G.R. Area: C2*
- MLL 232 - Intermediate American Sign Language II *Units: 4 ; G.E./G.R. Area: D1-3*

Upper Division Core

All ASL minor students must take the two (2) advanced language courses for 8 units:

- MLL 331 - Advanced American Sign Language I *Units: 4*
- MLL 332 - Advanced American Sign Language II *Units: 4*

Upper Division Elective(s)

All ASL minor students must choose at least one (1) course for 3 units. Students who test out of all the lower division courses are required to take a total of three (3) elective courses for 9 units.

- MLL 333 - American Deaf Culture *Units: 3 ; G.E./G.R. Area: C4*
- MLL 335 - Classifiers in American Sign Language *Units: 3*
- MLL 431 - Linguistics in American Sign Language *Units: 3*
- MLL 435 - Fieldwork in American Sign Language Studies *Units: 3*

Department Courses Listed by Course Type

Modern Languages and Literatures Courses

Department of Modern Languages and Literatures

Go to information for this department.

Courses

Modern Languages and Literatures

- MLL 211 - Multicultural Cinema *Units: 3 ; G.E./G.R. Area: C1*
- MLL 212 - Multiculturalism and Social Justice *Units: 3*
- MLL 311 - Studies in Modern Languages and Literatures in English *Units: 3 ; G.E./G.R. Area: D4*
- MLL 398 - Internship *Units: 1-3*
- MLL 490 - Independent Study *Units: 1-4*
- MLL 497 - Issues in Modern World Languages and Literatures *Units: 3*

Modern Languages and Literatures: American Sign Language

- MLL 131 - Elementary American Sign Language I *Units: 4 ; G.E./G.R. Area: C2*
- MLL 132 - Elementary American Sign Language II *Units: 4 ; G.E./G.R. Area: C1*
- MLL 231 - Intermediate American Sign Language I *Units: 4 ; G.E./G.R. Area: C2*
- MLL 232 - Intermediate American Sign Language II *Units: 4 ; G.E./G.R. Area: D1-3*
- MLL 331 - Advanced American Sign Language I *Units: 4*
- MLL 332 - Advanced American Sign Language II *Units: 4*
- MLL 333 - American Deaf Culture *Units: 3 ; G.E./G.R. Area: C4*
- MLL 335 - Classifiers in American Sign Language *Units: 3*
- MLL 431 - Linguistics in American Sign Language *Units: 3*
- MLL 435 - Fieldwork in American Sign Language Studies *Units: 3*

Modern Languages and Literatures: Chinese

- MLL 161 - Elementary Mandarin Chinese I *Units: 4 ; G.E./G.R. Area: C2*
- MLL 162 - Elementary Mandarin Chinese II *Units: 4 ; G.E./G.R. Area: C1*
- MLL 163 - Intensive Elementary Mandarin Chinese *Units: 4 ; G.E./G.R. Area: C1*
- MLL 261 - Intermediate Mandarin Chinese I *Units: 4 ; G.E./G.R. Area: C2*
- MLL 262 - Intermediate Mandarin Chinese II *Units: 4*
- MLL 361 - China Headline News: A Chinese-English Bilingual Study *Units: 4 ; G.E./G.R. Area:*

D4

- MLL 362 - Chinese Folktales and Culture (Bilingual) *Units: 4 ; G.E./G.R. Area: C4*
- MLL 366 - New Chinese Cinema in English Translation *Units: 3 ; G.E./G.R. Area: D4; Social*

Justice

- MLL 462 - Modern Chinese Short Stories in English Translation *Units: 3 ; G.E./G.R. Area: C4*
- MLL 465 - Chinese Wisdom and Ink-wash Animation in English Translation *Units: 3 ;*

G.E./G.R. Area: C4

Modern Languages and Literatures: French

- MLL 121 - Elementary French I *Units: 4 ; G.E./G.R. Area: C2*
- MLL 122 - Elementary French II *Units: 4 ; G.E./G.R. Area: C1*
- MLL 221 - Intermediate French I *Units: 4 ; G.E./G.R. Area: C2*
- MLL 222 - Intermediate French II *Units: 4*
- MLL 321 - Cinema for French Conversation *Units: 3 ; G.E./G.R. Area: C4*
- MLL 322 - Cinema for French Composition *Units: 3 ; G.E./G.R. Area: C4*
- MLL 323 - Francophone Culture and Civilization through Cinema *Units: 3 ; G.E./G.R. Area: C4*
- MLL 324 - French/Francophone Literature in Translation *Units: 3 ; G.E./G.R. Area: C4*
- MLL 325 - Themes in French/Francophone Literature *Units: 3 ; G.E./G.R. Area: C4*
- MLL 326 - Sexuality and Feminism in Francophone Literature and Cinema *Units: 3 ; G.E./G.R.*

Area: C4

- MLL 421 - French-English Translation *Units: 3*
- MLL 422 - LGBTQ Francophone Cinema *Units: 3 ; G.E./G.R. Area: C4; Social Justice*
- MLL 423 - Survey of Francophone Literature and Cinema *Units: 3*
- MLL 424 - Marginality in Francophone Literature *Units: 3 ; G.E./G.R. Area: C4*
- MLL 425 - Postcolonial Francophone Rap/Hip-Hop *Units: 3 ; G.E./G.R. Area: C4; Social Justice*
- MLL 428 - French for the Professions *Units: 4*
- MLL 429 - French for Reading Knowledge *Units: 4*

Modern Languages and Literatures: Japanese

- MLL 151 - Elementary Japanese I *Units: 4 ; G.E./G.R. Area: C2*
- MLL 152 - Elementary Japanese II *Units: 4 ; G.E./G.R. Area: C1*
- MLL 153 - Intensive Elementary Japanese *Units: 4 ; G.E./G.R. Area: C1*
- MLL 251 - Intermediate Japanese I *Units: 4 ; G.E./G.R. Area: C2*
- MLL 252 - Intermediate Japanese II *Units: 4*
- MLL 351 - Japan Headline News: A Japanese-English Bilingual Study *Units: 4 ; G.E./G.R. Area:*

D4

- MLL 352 - Japanese Folktales and Culture (Bilingual) *Units: 4 ; G.E./G.R. Area: C4*
- MLL 358 - Experiencing Japanese Culture in English Translation *Units: 3 ; G.E./G.R. Area: D4;*

Social Justice

- MLL 452 - Modern Japanese Short Stories in English Translation *Units: 3 ; G.E./G.R. Area: C4*
- MLL 455 - Japanese Manga and Anime Masterpieces in English Translation *Units: 3 ; G.E./G.R.*

Area: C4

Modern Languages and Literatures: Spanish

- MLL 141 - Elementary Spanish I *Units: 4 ; G.E./G.R. Area: C2*
- MLL 142 - Elementary Spanish II *Units: 4 ; G.E./G.R. Area: C1*

- MLL 146 - Beginning Spanish for Healthcare Professionals *Units: 4*
- MLL 241 - Intermediate Spanish I *Units: 4 ; G.E./G.R. Area: C2*
- MLL 242 - Intermediate Spanish II *Units: 4*
- MLL 246 - Intermediate Spanish for Healthcare Professionals *Units: 4*
- MLL 341 - Spanish Conversation *Units: 4*
- MLL 342 - Spanish Conversation for Community Engagement *Units: 4*
- MLL 343 - Spanish Composition and Syntax *Units: 4*
- MLL 344 - Spanish Linguistics and Phonetics *Units: 4*
- MLL 345 - Spanish Textual Analysis in a Multicultural Context *Units: 4 ; G.E./G.R. Area: D4*
- MLL 447 - Latin American Global and Cultural Studies *Units: 3 ; G.E./G.R. Area: C4*
- MLL 448 - Spanish Global and Cultural Studies *Units: 3*
- MLL 449 - Selected Topics in Hispanic Studies *Units: 3*

Modern Languages and Literatures: Spanish-American Literature and Culture

- MLL 441 - Introduction to Spanish American Literature: 1492 to 1900 *Units: 3*
- MLL 442 - Introduction to Spanish American Literature: 1900 to the Present *Units: 3 ; G.E./G.R. Area: C4*
- MLL 445 - Cultures of Spanish America *Units: 3 ; G.E./G.R. Area: C4*

Modern Languages and Literatures: Spanish Peninsular Literature and Culture

- MLL 443 - Survey Spanish Literature I: Medieval and Golden Age *Units: 3 ; G.E./G.R. Area: C4*
- MLL 444 - Survey Spanish Literature II: 18th Century to Present *Units: 3*
- MLL 446 - Cultures of Spain *Units: 3 ; G.E./G.R. Area: C4*

Chinese Language and Culture Minor

Minor Requirements (15-27 units)

Students may be exempt from lower division courses and may challenge elementary and intermediate courses by exam. Students who test out of some of the lower division courses will be required to take additional upper division elective courses **to meet the 15 unit minimum** for the minor.

Lower Division Core

The lower-division core consists of 0-16 units. Students who are not exempt must take four (4) of the following courses for 16 units:

- MLL 161 - Elementary Mandarin Chinese I *Units: 4 ; G.E./G.R. Area: C2*
- MLL 162 - Elementary Mandarin Chinese II *Units: 4 ; G.E./G.R. Area: C1*
- MLL 261 - Intermediate Mandarin Chinese I *Units: 4 ; G.E./G.R. Area: C2*
- MLL 262 - Intermediate Mandarin Chinese II *Units: 4*

Upper Division Core

All Chinese Language and Culture minor students must take the two (2) bilingual advanced language courses for 8 units:

- MLL 361 - China Headline News: A Chinese-English Bilingual Study *Units: 4 ; G.E./G.R. Area: D4*

- **MLL 362 - Chinese Folktales and Culture (Bilingual)** *Units: 4 ; G.E./G.R. Area: C4*

Upper Division Elective

All Chinese Language and Culture minor students must choose at least one (1) course for 3 units. Students who test out of some or all of the lower division courses are required to take additional electives from the list below to reach the minimum 15 units of the minor.

- **MLL 366 - New Chinese Cinema in English Translation** *Units: 3 ; G.E./G.R. Area: D4; Social Justice*
- **MLL 462 - Modern Chinese Short Stories in English Translation** *Units: 3 ; G.E./G.R. Area: C4*
- **MLL 465 - Chinese Wisdom and Ink-wash Animation in English Translation** *Units: 3 ; G.E./G.R. Area: C4*

Department Courses Listed by Course Type

Modern Languages and Literatures Courses

Department of Modern Languages and Literatures

Go to information for this department.

Courses

Modern Languages and Literatures

- **MLL 211 - Multicultural Cinema** *Units: 3 ; G.E./G.R. Area: C1*
- **MLL 212 - Multiculturalism and Social Justice** *Units: 3*
- **MLL 311 - Studies in Modern Languages and Literatures in English** *Units: 3 ; G.E./G.R. Area: D4*
- **MLL 398 - Internship** *Units: 1-3*
- **MLL 490 - Independent Study** *Units: 1-4*
- **MLL 497 - Issues in Modern World Languages and Literatures** *Units: 3*

Modern Languages and Literatures: American Sign Language

- **MLL 131 - Elementary American Sign Language I** *Units: 4 ; G.E./G.R. Area: C2*
- **MLL 132 - Elementary American Sign Language II** *Units: 4 ; G.E./G.R. Area: C1*
- **MLL 231 - Intermediate American Sign Language I** *Units: 4 ; G.E./G.R. Area: C2*
- **MLL 232 - Intermediate American Sign Language II** *Units: 4 ; G.E./G.R. Area: D1-3*
- **MLL 331 - Advanced American Sign Language I** *Units: 4*
- **MLL 332 - Advanced American Sign Language II** *Units: 4*
- **MLL 333 - American Deaf Culture** *Units: 3 ; G.E./G.R. Area: C4*
- **MLL 335 - Classifiers in American Sign Language** *Units: 3*
- **MLL 431 - Linguistics in American Sign Language** *Units: 3*
- **MLL 435 - Fieldwork in American Sign Language Studies** *Units: 3*

Modern Languages and Literatures: Chinese

- **MLL 161 - Elementary Mandarin Chinese I** *Units: 4 ; G.E./G.R. Area: C2*
- **MLL 162 - Elementary Mandarin Chinese II** *Units: 4 ; G.E./G.R. Area: C1*

- MLL 163 - Intensive Elementary Mandarin Chinese *Units: 4 ; G.E./G.R. Area: C1*
- MLL 261 - Intermediate Mandarin Chinese I *Units: 4 ; G.E./G.R. Area: C2*
- MLL 262 - Intermediate Mandarin Chinese II *Units: 4*
- MLL 361 - China Headline News: A Chinese-English Bilingual Study *Units: 4 ; G.E./G.R. Area:*

D4

- MLL 362 - Chinese Folktales and Culture (Bilingual) *Units: 4 ; G.E./G.R. Area: C4*
- MLL 366 - New Chinese Cinema in English Translation *Units: 3 ; G.E./G.R. Area: D4; Social*

Justice

- MLL 462 - Modern Chinese Short Stories in English Translation *Units: 3 ; G.E./G.R. Area: C4*
- MLL 465 - Chinese Wisdom and Ink-wash Animation in English Translation *Units: 3 ;*

G.E./G.R. Area: C4

Modern Languages and Literatures: French

- MLL 121 - Elementary French I *Units: 4 ; G.E./G.R. Area: C2*
- MLL 122 - Elementary French II *Units: 4 ; G.E./G.R. Area: C1*
- MLL 221 - Intermediate French I *Units: 4 ; G.E./G.R. Area: C2*
- MLL 222 - Intermediate French II *Units: 4*
- MLL 321 - Cinema for French Conversation *Units: 3 ; G.E./G.R. Area: C4*
- MLL 322 - Cinema for French Composition *Units: 3 ; G.E./G.R. Area: C4*
- MLL 323 - Francophone Culture and Civilization through Cinema *Units: 3 ; G.E./G.R. Area: C4*
- MLL 324 - French/Francophone Literature in Translation *Units: 3 ; G.E./G.R. Area: C4*
- MLL 325 - Themes in French/Francophone Literature *Units: 3 ; G.E./G.R. Area: C4*
- MLL 326 - Sexuality and Feminism in Francophone Literature and Cinema *Units: 3 ; G.E./G.R.*

Area: C4

- MLL 421 - French-English Translation *Units: 3*
- MLL 422 - LGBTQ Francophone Cinema *Units: 3 ; G.E./G.R. Area: C4; Social Justice*
- MLL 423 - Survey of Francophone Literature and Cinema *Units: 3*
- MLL 424 - Marginality in Francophone Literature *Units: 3 ; G.E./G.R. Area: C4*
- MLL 425 - Postcolonial Francophone Rap/Hip-Hop *Units: 3 ; G.E./G.R. Area: C4; Social Justice*
- MLL 428 - French for the Professions *Units: 4*
- MLL 429 - French for Reading Knowledge *Units: 4*

Modern Languages and Literatures: Japanese

- MLL 151 - Elementary Japanese I *Units: 4 ; G.E./G.R. Area: C2*
- MLL 152 - Elementary Japanese II *Units: 4 ; G.E./G.R. Area: C1*
- MLL 153 - Intensive Elementary Japanese *Units: 4 ; G.E./G.R. Area: C1*
- MLL 251 - Intermediate Japanese I *Units: 4 ; G.E./G.R. Area: C2*
- MLL 252 - Intermediate Japanese II *Units: 4*
- MLL 351 - Japan Headline News: A Japanese-English Bilingual Study *Units: 4 ; G.E./G.R. Area:*

D4

- MLL 352 - Japanese Folktales and Culture (Bilingual) *Units: 4 ; G.E./G.R. Area: C4*
- MLL 358 - Experiencing Japanese Culture in English Translation *Units: 3 ; G.E./G.R. Area: D4;*

Social Justice

- MLL 452 - Modern Japanese Short Stories in English Translation *Units: 3 ; G.E./G.R. Area: C4*
- MLL 455 - Japanese Manga and Anime Masterpieces in English Translation *Units: 3 ; G.E./G.R.*

Area: C4

Modern Languages and Literatures: Spanish

- MLL 141 - Elementary Spanish I *Units: 4 ; G.E./G.R. Area: C2*
- MLL 142 - Elementary Spanish II *Units: 4 ; G.E./G.R. Area: C1*
- MLL 146 - Beginning Spanish for Healthcare Professionals *Units: 4*
- MLL 241 - Intermediate Spanish I *Units: 4 ; G.E./G.R. Area: C2*

- MLL 242 - Intermediate Spanish II *Units: 4*
- MLL 246 - Intermediate Spanish for Healthcare Professionals *Units: 4*
- MLL 341 - Spanish Conversation *Units: 4*
- MLL 342 - Spanish Conversation for Community Engagement *Units: 4*
- MLL 343 - Spanish Composition and Syntax *Units: 4*
- MLL 344 - Spanish Linguistics and Phonetics *Units: 4*
- MLL 345 - Spanish Textual Analysis in a Multicultural Context *Units: 4 ; G.E./G.R. Area: D4*
- MLL 447 - Latin American Global and Cultural Studies *Units: 3 ; G.E./G.R. Area: C4*
- MLL 448 - Spanish Global and Cultural Studies *Units: 3*
- MLL 449 - Selected Topics in Hispanic Studies *Units: 3*

Modern Languages and Literatures: Spanish-American Literature and Culture

- MLL 441 - Introduction to Spanish American Literature: 1492 to 1900 *Units: 3*
- MLL 442 - Introduction to Spanish American Literature: 1900 to the Present *Units: 3 ; G.E./G.R. Area: C4*
- MLL 445 - Cultures of Spanish America *Units: 3 ; G.E./G.R. Area: C4*

Modern Languages and Literatures: Spanish Peninsular Literature and Culture

- MLL 443 - Survey Spanish Literature I: Medieval and Golden Age *Units: 3 ; G.E./G.R. Area: C4*
- MLL 444 - Survey Spanish Literature II: 18th Century to Present *Units: 3*
- MLL 446 - Cultures of Spain *Units: 3 ; G.E./G.R. Area: C4*

French Minor

Minor Requirements (20 units)

Required Courses

Take the following 8 units:

- MLL 221 - Intermediate French I *Units: 4 ; G.E./G.R. Area: C2*
- MLL 222 - Intermediate French II *Units: 4*

Electives

Choose four (4) courses for 12 units from the following:

- MLL 321 - Cinema for French Conversation *Units: 3 ; G.E./G.R. Area: C4*
- MLL 322 - Cinema for French Composition *Units: 3 ; G.E./G.R. Area: C4*
- MLL 323 - Francophone Culture and Civilization through Cinema *Units: 3 ; G.E./G.R. Area: C4*
- MLL 325 - Themes in French/Francophone Literature *Units: 3 ; G.E./G.R. Area: C4*
- MLL 326 - Sexuality and Feminism in Francophone Literature and Cinema *Units: 3 ; G.E./G.R. Area: C4*
- MLL 421 - French-English Translation *Units: 3*
- MLL 422 - LGBTQ Francophone Cinema *Units: 3 ; G.E./G.R. Area: C4; Social Justice*
- MLL 423 - Survey of Francophone Literature and Cinema *Units: 3*

- MLL 424 - Marginality in Francophone Literature *Units: 3 ; G.E./G.R. Area: C4*
- MLL 425 - Postcolonial Francophone Rap/Hip-Hop *Units: 3 ; G.E./G.R. Area: C4; Social Justice*
- MLL 428 - French for the Professions *Units: 4*

Department Courses Listed by Course Type

Modern Languages and Literatures Courses

Department of Modern Languages and Literatures

Go to information for this department.

Courses

Modern Languages and Literatures

- MLL 211 - Multicultural Cinema *Units: 3 ; G.E./G.R. Area: C1*
- MLL 212 - Multiculturalism and Social Justice *Units: 3*
- MLL 311 - Studies in Modern Languages and Literatures in English *Units: 3 ; G.E./G.R. Area: D4*
- MLL 398 - Internship *Units: 1-3*
- MLL 490 - Independent Study *Units: 1-4*
- MLL 497 - Issues in Modern World Languages and Literatures *Units: 3*

Modern Languages and Literatures: American Sign Language

- MLL 131 - Elementary American Sign Language I *Units: 4 ; G.E./G.R. Area: C2*
- MLL 132 - Elementary American Sign Language II *Units: 4 ; G.E./G.R. Area: C1*
- MLL 231 - Intermediate American Sign Language I *Units: 4 ; G.E./G.R. Area: C2*
- MLL 232 - Intermediate American Sign Language II *Units: 4 ; G.E./G.R. Area: D1-3*
- MLL 331 - Advanced American Sign Language I *Units: 4*
- MLL 332 - Advanced American Sign Language II *Units: 4*
- MLL 333 - American Deaf Culture *Units: 3 ; G.E./G.R. Area: C4*
- MLL 335 - Classifiers in American Sign Language *Units: 3*
- MLL 431 - Linguistics in American Sign Language *Units: 3*
- MLL 435 - Fieldwork in American Sign Language Studies *Units: 3*

Modern Languages and Literatures: Chinese

- MLL 161 - Elementary Mandarin Chinese I *Units: 4 ; G.E./G.R. Area: C2*
- MLL 162 - Elementary Mandarin Chinese II *Units: 4 ; G.E./G.R. Area: C1*
- MLL 163 - Intensive Elementary Mandarin Chinese *Units: 4 ; G.E./G.R. Area: C1*
- MLL 261 - Intermediate Mandarin Chinese I *Units: 4 ; G.E./G.R. Area: C2*
- MLL 262 - Intermediate Mandarin Chinese II *Units: 4*
- MLL 361 - China Headline News: A Chinese-English Bilingual Study *Units: 4 ; G.E./G.R. Area: D4*
- MLL 362 - Chinese Folktales and Culture (Bilingual) *Units: 4 ; G.E./G.R. Area: C4*
- MLL 366 - New Chinese Cinema in English Translation *Units: 3 ; G.E./G.R. Area: D4; Social Justice*
- MLL 462 - Modern Chinese Short Stories in English Translation *Units: 3 ; G.E./G.R. Area: C4*

- MLL 465 - Chinese Wisdom and Ink-wash Animation in English Translation *Units: 3 ; G.E./G.R. Area: C4*

Modern Languages and Literatures: French

- MLL 121 - Elementary French I *Units: 4 ; G.E./G.R. Area: C2*
- MLL 122 - Elementary French II *Units: 4 ; G.E./G.R. Area: C1*
- MLL 221 - Intermediate French I *Units: 4 ; G.E./G.R. Area: C2*
- MLL 222 - Intermediate French II *Units: 4*
- MLL 321 - Cinema for French Conversation *Units: 3 ; G.E./G.R. Area: C4*
- MLL 322 - Cinema for French Composition *Units: 3 ; G.E./G.R. Area: C4*
- MLL 323 - Francophone Culture and Civilization through Cinema *Units: 3 ; G.E./G.R. Area: C4*
- MLL 324 - French/Francophone Literature in Translation *Units: 3 ; G.E./G.R. Area: C4*
- MLL 325 - Themes in French/Francophone Literature *Units: 3 ; G.E./G.R. Area: C4*
- MLL 326 - Sexuality and Feminism in Francophone Literature and Cinema *Units: 3 ; G.E./G.R.*

Area: C4

- MLL 421 - French-English Translation *Units: 3*
- MLL 422 - LGBTQ Francophone Cinema *Units: 3 ; G.E./G.R. Area: C4; Social Justice*
- MLL 423 - Survey of Francophone Literature and Cinema *Units: 3*
- MLL 424 - Marginality in Francophone Literature *Units: 3 ; G.E./G.R. Area: C4*
- MLL 425 - Postcolonial Francophone Rap/Hip-Hop *Units: 3 ; G.E./G.R. Area: C4; Social Justice*
- MLL 428 - French for the Professions *Units: 4*
- MLL 429 - French for Reading Knowledge *Units: 4*

Modern Languages and Literatures: Japanese

- MLL 151 - Elementary Japanese I *Units: 4 ; G.E./G.R. Area: C2*
- MLL 152 - Elementary Japanese II *Units: 4 ; G.E./G.R. Area: C1*
- MLL 153 - Intensive Elementary Japanese *Units: 4 ; G.E./G.R. Area: C1*
- MLL 251 - Intermediate Japanese I *Units: 4 ; G.E./G.R. Area: C2*
- MLL 252 - Intermediate Japanese II *Units: 4*
- MLL 351 - Japan Headline News: A Japanese-English Bilingual Study *Units: 4 ; G.E./G.R. Area:*

D4

- MLL 352 - Japanese Folktales and Culture (Bilingual) *Units: 4 ; G.E./G.R. Area: C4*
- MLL 358 - Experiencing Japanese Culture in English Translation *Units: 3 ; G.E./G.R. Area: D4; Social Justice*
- MLL 452 - Modern Japanese Short Stories in English Translation *Units: 3 ; G.E./G.R. Area: C4*
- MLL 455 - Japanese Manga and Anime Masterpieces in English Translation *Units: 3 ; G.E./G.R.*

Area: C4

Modern Languages and Literatures: Spanish

- MLL 141 - Elementary Spanish I *Units: 4 ; G.E./G.R. Area: C2*
- MLL 142 - Elementary Spanish II *Units: 4 ; G.E./G.R. Area: C1*
- MLL 146 - Beginning Spanish for Healthcare Professionals *Units: 4*
- MLL 241 - Intermediate Spanish I *Units: 4 ; G.E./G.R. Area: C2*
- MLL 242 - Intermediate Spanish II *Units: 4*
- MLL 246 - Intermediate Spanish for Healthcare Professionals *Units: 4*
- MLL 341 - Spanish Conversation *Units: 4*
- MLL 342 - Spanish Conversation for Community Engagement *Units: 4*
- MLL 343 - Spanish Composition and Syntax *Units: 4*
- MLL 344 - Spanish Linguistics and Phonetics *Units: 4*
- MLL 345 - Spanish Textual Analysis in a Multicultural Context *Units: 4 ; G.E./G.R. Area: D4*
- MLL 447 - Latin American Global and Cultural Studies *Units: 3 ; G.E./G.R. Area: C4*
- MLL 448 - Spanish Global and Cultural Studies *Units: 3*

- MLL 449 - Selected Topics in Hispanic Studies *Units: 3*
- **Modern Languages and Literatures: Spanish-American Literature and Culture**
- MLL 441 - Introduction to Spanish American Literature: 1492 to 1900 *Units: 3*
- MLL 442 - Introduction to Spanish American Literature: 1900 to the Present *Units: 3 ; G.E./G.R. Area: C4*
- MLL 445 - Cultures of Spanish America *Units: 3 ; G.E./G.R. Area: C4*
- **Modern Languages and Literatures: Spanish Peninsular Literature and Culture**
- MLL 443 - Survey Spanish Literature I: Medieval and Golden Age *Units: 3 ; G.E./G.R. Area: C4*
- MLL 444 - Survey Spanish Literature II: 18th Century to Present *Units: 3*
- MLL 446 - Cultures of Spain *Units: 3 ; G.E./G.R. Area: C4*

Spanish Minor

Minor Requirements (15-28 units)

Students may be exempt from lower division courses. Students may challenge elementary and intermediate courses by exam. Students who test out of the lower division courses will be required to take a fourth upper division course to meet the 15 unit minimum for the minor.

NOTE: Spanish minor students should take all courses for a letter grade.

Lower Division Core

Students who are not exempt must take four (4) of the following courses for 16 units:

- MLL 141 - Elementary Spanish I *Units: 4 ; G.E./G.R. Area: C2*
- MLL 142 - Elementary Spanish II *Units: 4 ; G.E./G.R. Area: C1*
- OR MLL 146 - Beginning Spanish for Healthcare Professionals *Units: 4*
- MLL 241 - Intermediate Spanish I *Units: 4 ; G.E./G.R. Area: C2*
- MLL 242 - Intermediate Spanish II *Units: 4*
- OR MLL 246 - Intermediate Spanish for Healthcare Professionals *Units: 4*

Upper Division Electives

Students who test out of the lower division courses will be required to take a fourth upper division course to meet the 15 unit minimum.

Students must take three (3) courses from the following list for 12 units:

- MLL 341 - Spanish Conversation *Units: 4*
- MLL 343 - Spanish Composition and Syntax *Units: 4*
- MLL 344 - Spanish Linguistics and Phonetics *Units: 4*
- MLL 345 - Spanish Textual Analysis in a Multicultural Context *Units: 4 ; G.E./G.R. Area: D4*

Department Courses Listed by Course Type

Modern Languages and Literatures Courses

Department of Modern Languages and Literatures

Go to information for this department.

Courses

Modern Languages and Literatures

- MLL 211 - Multicultural Cinema *Units: 3 ; G.E./G.R. Area: C1*
- MLL 212 - Multiculturalism and Social Justice *Units: 3*
- MLL 311 - Studies in Modern Languages and Literatures in English *Units: 3 ; G.E./G.R. Area: D4*
- MLL 398 - Internship *Units: 1-3*
- MLL 490 - Independent Study *Units: 1-4*
- MLL 497 - Issues in Modern World Languages and Literatures *Units: 3*

Modern Languages and Literatures: American Sign Language

- MLL 131 - Elementary American Sign Language I *Units: 4 ; G.E./G.R. Area: C2*
- MLL 132 - Elementary American Sign Language II *Units: 4 ; G.E./G.R. Area: C1*
- MLL 231 - Intermediate American Sign Language I *Units: 4 ; G.E./G.R. Area: C2*
- MLL 232 - Intermediate American Sign Language II *Units: 4 ; G.E./G.R. Area: D1-3*
- MLL 331 - Advanced American Sign Language I *Units: 4*
- MLL 332 - Advanced American Sign Language II *Units: 4*
- MLL 333 - American Deaf Culture *Units: 3 ; G.E./G.R. Area: C4*
- MLL 335 - Classifiers in American Sign Language *Units: 3*
- MLL 431 - Linguistics in American Sign Language *Units: 3*
- MLL 435 - Fieldwork in American Sign Language Studies *Units: 3*

Modern Languages and Literatures: Chinese

- MLL 161 - Elementary Mandarin Chinese I *Units: 4 ; G.E./G.R. Area: C2*
- MLL 162 - Elementary Mandarin Chinese II *Units: 4 ; G.E./G.R. Area: C1*
- MLL 163 - Intensive Elementary Mandarin Chinese *Units: 4 ; G.E./G.R. Area: C1*
- MLL 261 - Intermediate Mandarin Chinese I *Units: 4 ; G.E./G.R. Area: C2*
- MLL 262 - Intermediate Mandarin Chinese II *Units: 4*
- MLL 361 - China Headline News: A Chinese-English Bilingual Study *Units: 4 ; G.E./G.R. Area: D4*
- MLL 362 - Chinese Folktales and Culture (Bilingual) *Units: 4 ; G.E./G.R. Area: C4*
- MLL 366 - New Chinese Cinema in English Translation *Units: 3 ; G.E./G.R. Area: D4; Social Justice*
- MLL 462 - Modern Chinese Short Stories in English Translation *Units: 3 ; G.E./G.R. Area: C4*
- MLL 465 - Chinese Wisdom and Ink-wash Animation in English Translation *Units: 3 ; G.E./G.R. Area: C4*

Modern Languages and Literatures: French

- MLL 121 - Elementary French I *Units: 4 ; G.E./G.R. Area: C2*
- MLL 122 - Elementary French II *Units: 4 ; G.E./G.R. Area: C1*
- MLL 221 - Intermediate French I *Units: 4 ; G.E./G.R. Area: C2*

- MLL 222 - Intermediate French II *Units: 4*
- MLL 321 - Cinema for French Conversation *Units: 3 ; G.E./G.R. Area: C4*
- MLL 322 - Cinema for French Composition *Units: 3 ; G.E./G.R. Area: C4*
- MLL 323 - Francophone Culture and Civilization through Cinema *Units: 3 ; G.E./G.R. Area: C4*
- MLL 324 - French/Francophone Literature in Translation *Units: 3 ; G.E./G.R. Area: C4*
- MLL 325 - Themes in French/Francophone Literature *Units: 3 ; G.E./G.R. Area: C4*
- MLL 326 - Sexuality and Feminism in Francophone Literature and Cinema *Units: 3 ; G.E./G.R.*

Area: C4

- MLL 421 - French-English Translation *Units: 3*
- MLL 422 - LGBTQ Francophone Cinema *Units: 3 ; G.E./G.R. Area: C4; Social Justice*
- MLL 423 - Survey of Francophone Literature and Cinema *Units: 3*
- MLL 424 - Marginality in Francophone Literature *Units: 3 ; G.E./G.R. Area: C4*
- MLL 425 - Postcolonial Francophone Rap/Hip-Hop *Units: 3 ; G.E./G.R. Area: C4; Social Justice*
- MLL 428 - French for the Professions *Units: 4*
- MLL 429 - French for Reading Knowledge *Units: 4*

Modern Languages and Literatures: Japanese

- MLL 151 - Elementary Japanese I *Units: 4 ; G.E./G.R. Area: C2*
- MLL 152 - Elementary Japanese II *Units: 4 ; G.E./G.R. Area: C1*
- MLL 153 - Intensive Elementary Japanese *Units: 4 ; G.E./G.R. Area: C1*
- MLL 251 - Intermediate Japanese I *Units: 4 ; G.E./G.R. Area: C2*
- MLL 252 - Intermediate Japanese II *Units: 4*
- MLL 351 - Japan Headline News: A Japanese-English Bilingual Study *Units: 4 ; G.E./G.R. Area:*

D4

- MLL 352 - Japanese Folktales and Culture (Bilingual) *Units: 4 ; G.E./G.R. Area: C4*
- MLL 358 - Experiencing Japanese Culture in English Translation *Units: 3 ; G.E./G.R. Area: D4; Social Justice*
- MLL 452 - Modern Japanese Short Stories in English Translation *Units: 3 ; G.E./G.R. Area: C4*
- MLL 455 - Japanese Manga and Anime Masterpieces in English Translation *Units: 3 ; G.E./G.R.*

Area: C4

Modern Languages and Literatures: Spanish

- MLL 141 - Elementary Spanish I *Units: 4 ; G.E./G.R. Area: C2*
- MLL 142 - Elementary Spanish II *Units: 4 ; G.E./G.R. Area: C1*
- MLL 146 - Beginning Spanish for Healthcare Professionals *Units: 4*
- MLL 241 - Intermediate Spanish I *Units: 4 ; G.E./G.R. Area: C2*
- MLL 242 - Intermediate Spanish II *Units: 4*
- MLL 246 - Intermediate Spanish for Healthcare Professionals *Units: 4*
- MLL 341 - Spanish Conversation *Units: 4*
- MLL 342 - Spanish Conversation for Community Engagement *Units: 4*
- MLL 343 - Spanish Composition and Syntax *Units: 4*
- MLL 344 - Spanish Linguistics and Phonetics *Units: 4*
- MLL 345 - Spanish Textual Analysis in a Multicultural Context *Units: 4 ; G.E./G.R. Area: D4*
- MLL 447 - Latin American Global and Cultural Studies *Units: 3 ; G.E./G.R. Area: C4*
- MLL 448 - Spanish Global and Cultural Studies *Units: 3*
- MLL 449 - Selected Topics in Hispanic Studies *Units: 3*

Modern Languages and Literatures: Spanish-American Literature and Culture

- MLL 441 - Introduction to Spanish American Literature: 1492 to 1900 *Units: 3*
 - MLL 442 - Introduction to Spanish American Literature: 1900 to the Present *Units: 3 ; G.E./G.R.*
- Area: C4*
- MLL 445 - Cultures of Spanish America *Units: 3 ; G.E./G.R. Area: C4*

Modern Languages and Literatures: Spanish Peninsular Literature and Culture

- MLL 443 - Survey Spanish Literature I: Medieval and Golden Age *Units: 3 ; G.E./G.R. Area: C4*
- MLL 444 - Survey Spanish Literature II: 18th Century to Present *Units: 3*
- MLL 446 - Cultures of Spain *Units: 3 ; G.E./G.R. Area: C4*

Department of Music

Department Office location in the Music and Business building, Room 2571

Open Hours: 8:00 a.m. - 5:00 p.m., Monday through Friday

Dept Phone: (510) 885-3135

Faculty

Professors

Rafael Hernandez, D.M. Indiana University

Buddy O. James (Chair), D.M.A. University of Southern California

Kathleen Rountree, D.M. The Florida State University

Associate Professors

John Eros, Ph.D. The University of Michigan, Ann Arbor

Peter K. Marsh, Ph.D. Indiana University

Assistant Professors

Danielle Gaudry, D.M.A. University of Cincinnati

Omri Shimron, D.M.A. Eastman School of Music

Ines Thiebaut, Ph.D. City University of New York, Graduate Center

Graduate Coordinator: Peter K. Marsh

Mission Statement

The mission of the Department of Music is to offer all students outstanding musical and educational experiences within a nurturing and collegial environment. These experiences provide opportunities for personal and professional enrichment by developing a greater appreciation for and understanding of the art of music. Through performance, creative activity, research, scholarship and teaching, students are prepared for careers as performers, composers, teachers and independent scholars, and for advanced study.

About the Department

Use our university website link to learn more about what the Music Department has to offer.

- Auditions
- Scholarships
- News and Events
- Resources
- School of Arts and Media
- Facebook Page
- And more...

Bachelor

Music, B.A.

Music, B.A. Program (120 units)

Program Description

The Music Department at CSUEB integrates rigorous academic training with a driving passion for the making of great music: the classics from the European-American tradition, great jazz, the new 'classics' of our own time, world music, experimental music and more. With a rich variety of opportunities for performing and composing and a deep commitment to teacher education, the Music Department offers something for all students seriously committed to pursuing a life in music.

Student performance groups are open to all qualified students and one need not be a music major to participate. There are more than twenty active ensembles including Wind Symphony, Jazz Orchestra, East Bay Singers, Orchestra, Vocal Repertory Ensemble, Singing Society, Percussion Ensemble, Jazz Singers, and many small vocal and instrumental ensembles.

The Department of Music offers Bachelor of Arts degree and Master of Arts degree majors which are fully accredited by the National Association of Schools of Music. All music majors have the advantage of continuous applied lessons with instrumental, vocal, or composition teachers on the faculty. A music minor is also offered.

The Music Department occupies a large, fully-equipped, modern facility with a number of special resources: a Media Center for Music Technology; Music Resource Center, with thousands of scores and recordings; Choral Music Education Student Resource Center, with thousands of choral octavos and conducting resources; large musical equipment collection for student use; Recital Hall with custom acoustical design; and professional recording facilities.

The Music curriculum is designed to serve the needs of students who have career goals in performance, composition, music technology, jazz, public school or private teaching, or graduate study, as well as those who are pursuing other fields of study and choose music as an elective.

Program Learning Outcomes

Students graduating with a B.A. in Music from Cal State East Bay will be able to:

- Aurally identify common rhythmic, melodic, and harmonic patterns; demonstrate pitch and rhythmic accuracy through singing and rhythm vocalization.
- Demonstrate stylistically appropriate sound quality, technical skills, and expression within their primary performance area
- Apply critical and creative thinking and analytical reasoning to address complex challenges in the theory, history, and performance of music of many cultures.
- Create, perform, and respond to musical works and ideas, and relate them to societal, cultural and historical contexts
- Demonstrate the ability to work collaboratively and respectfully with others in classroom and performance settings
- Demonstrate an ability to integrate musical ideas, methods, theories, and practices, and communicate them to others clearly and persuasively.

Career Opportunities

Arranger • Choral Director • Composer • Concert Artist • Conductor • DJ • Film/Video
 Composer • Freelance Performer • Jazz Musician • Music Professor/Teacher • Musical Theater
 Director • Symphony Member

Scholarships

The Music Department annually awards a number of scholarships to entering and returning music majors. For more information, contact the Music Department office at (510) 885-3135.

Preparation

For Advanced Placement course equivalencies, see Registration chapter.

Admission

Students wanting to select music as a major are expected to have had a variety of pre-college cognitive and affective experiences, such as high school performance, high school theory programs, individual private instruction with music professionals, or music professional experiences. Admission to the major in music is determined by audition. Students must complete this audition and be accepted to the department prior to being accepted in the major.

Transfer students will be placed at the appropriate applied lesson level determined by their successful audition. Transfer students will also be subject to a proficiency examination as described below under "Special Requirements of the Department of Music, Section IV. Proficiency Examinations."

Standards and Guidelines for Auditions

May be found on the Department of Music website.

Applied Lessons:

Each Music major will declare an applied music discipline (keyboard, voice, wind, brass, percussion, strings, jazz, guitar, harp, composition) with the department.

Majors wishing to choose composition as their applied music discipline are required to complete first year study in an instrumental or vocal discipline or demonstrate equivalent experience and submit a portfolio of written works for review. Students whose portfolios are accepted, will begin applied lessons in composition.

To receive applied lessons, an undergraduate student must be enrolled for a minimum of five (5) units, two of which must be in any music course other than major performance activities and applied music.

Registration for applied lessons requires concurrent enrollment in a major performance activity (MUS 351 - 355). Students who do not meet this requirement by the end of the add/drop period will not be eligible for applied lessons that semester. Ensembles that may be used to meet this requirement are listed in the Handbook for Music Majors.

All students enrolled in applied lessons must demonstrate their progress through periodic performances before a faculty jury as outlined in the Handbook for Undergraduate Music Majors.

Students are limited to a total of eight semesters of study in applied instruction (assuming a passing grade for each semester of instruction was given).

Recitals:

Music majors are to appear each year in regularly scheduled student recitals as determined by the department.

Specific recital performance requirements are outlined in the Handbook for Music Majors.

Music majors are required to attend ten DEPARTMENTAL recitals or concerts each semester on which they are not a required performer or participant. Recital attendance is recorded on a recital attendance card that may be obtained from the Music Department office.

Major Performance Activities and Chamber Ensembles:

Each music major is required to play his or her principal instrument (as determined by applied lesson enrollment) in one major music performance activity (MUS 351 - 355) each semester in which he or she is registered for applied lessons. Students may choose to perform on a secondary instrument or voice to fulfill the requirement if performance opportunities on the principal instrument do not exist.

The 2 units of chamber ensemble required for the Music major must be taken in 2 different semesters.

Proficiency Examinations:

Proficiency examinations may be required in any or all aspects of music performance skills, theory, and history and literature as a basis for determining placement in sequence courses.

An upper division transfer student who has completed most of his or her music major may be required to take remediation in certain courses in theory, history and literature, and performance based on the results of the proficiency examinations.

All new music majors (except keyboard majors) are required to take a piano proficiency exam. If the exam is not passed, the student must enroll in the appropriate level of class piano instruction until the proficiency exam or MUS 218b is passed. Freshmen music majors, including keyboard majors, are required to take for credit a minimum of MUS 118a and MUS 118b. They may challenge the course for credit if they believe their keyboard skills meet the demands of MUS 118a and MUS 118b.

Sample Program

A Sample Program for this degree can be found at the Department website.

Degree Requirements Unit-Outline

- A baccalaureate of arts degree requires a total of 120 units:
 - The major requirements consists of 54 units;
 - General Education (GE) & Graduation Requirements (GR) consists of 57 units;
 - Free Electives may consist of 9 units (*actual number of free elective units may depend on GE/GR units*).

Note: It may be possible to double-count units within the graduation requirements or that a course may satisfy both a graduation requirement and a major requirement. Students should contact their program and AACE advisors for information.

Music Major Requirements (54 units)

Lower Division Core Courses

Students must complete 24* units of lower-division core coursework as outlined below:

Complete the following 20 units of required courses:

- **MUS 111 - Music Theory I** Units: 3 ; G.E./G.R. Area: C1 (* see Errata page for course change)
- **MUS 112 - Music Theory II** Units: 3
- **MUS 115 - Aural Skills I** Units: 1
- **MUS 116 - Aural Skills II** Units: 1
- **MUS 118A - Basic Keyboard I** Units: 1
- **MUS 118B - Basic Keyboard II** Units: 1
- **MUS 211 - Music Theory III** Units: 3
- **MUS 212 - Music Theory IV** Units: 3
- **MUS 215 - Aural Skills III** Units: 1
- **MUS 216 - Aural Skills IV** Units: 1
- **MUS 218A - Intermediate Keyboard I** Units: 1
- **MUS 218B - Intermediate Keyboard II** Units: 1
- An additional 4 units of lower-division Applied Study (MUS 261-269) are required. Placement in the Applied Study courses are determined by audition. Use this [About Courses & Course Filter](#) link to see all the Applied Study courses.

Upper Division Core Courses

Students must complete 30 units of upper-division core coursework as outlined below:

Complete the following 16 units of required courses:

- **MUS 304 - Introduction to World Music & Culture** Units: 3 ; G.E./G.R. Area: C4

- MUS 312 - Form and Analysis *Units: 3*
- MUS 321 - Western Music History I *Units: 4*
- MUS 322 - Western Music History II *Units: 4*
- MUS 380 - Recital Class - Junior *Units: 1*
- MUS 480 - Recital Class - Senior *Units: 1*

Upper Division Applied Study Coursework

- An additional 4 units of upper-division Applied Study (MUS 461-469) are required. Placement in the Applied Study courses are determined by audition. Use this Course Type Music link to see all the Applied Study courses.

Major Performing Ensembles Coursework

- An additional 8 units of Major Performing Ensembles (MUS 351-355) are required. Placement in the Major Performing Ensembles courses are determined by audition. Use this Course Type Music link to see all the Major Performing Ensembles courses.

Chamber Ensembles Coursework

- An additional 2 units of Chamber Ensembles (MUS 361-370) are required. Placement in the Chamber Ensembles courses are determined by audition. Use this Course Type Music link to see all the Chamber Ensembles courses.

Other Undergraduate Degree Requirements

In addition to major requirements, every student must also complete the University's baccalaureate requirements for graduation, which are described in the Requirements, Exams & Testing chapter of this catalog.

Department Courses Listed by Course Type

Music Courses

Department of Music

Courses

Music

- MUS 281 - Vocal Coaching
- MUS 282 - Instrumental Coaching
- MUS 302 - What to Listen for in Music
- MUS 398 - Internship
- MUS 480 - Recital Class - Senior
- MUS 490 - Independent Study

Music: Applied Study (LD)

- • MUS 261A - Applied Study: Piano
- • MUS 261B - Applied Study: Harpsichord
- • MUS 261C - Applied Study: Organ
- • MUS 262 - Applied Study: Voice
- • MUS 263A - Applied Study: Violin
- • MUS 263B - Applied Study: Viola
- • MUS 263C - Applied Study: Cello
- • MUS 263D - Applied Study: Double Bass
- • MUS 263E - Applied Study: Classical Guitar
- • MUS 263F - Applied Study: Harp
- • MUS 264A - Applied Study: Flute
- • MUS 264B - Applied Study: Clarinet
- • MUS 264C - Applied Study: Saxophone
- • MUS 264D - Applied Study: Oboe
- • MUS 264E - Applied Study: Bassoon
- • MUS 265A - Applied Study: Trumpet
- • MUS 265B - Applied Study: French Horn
- • MUS 265C - Applied Study: Trombone
- • MUS 265D - Applied Study: Euphonium
- • MUS 265E - Applied Study: Tuba
- • MUS 266 - Applied Study: Percussion
- • MUS 267A - Applied Study: Composition
- • MUS 267B - Applied Study: Interactive and Media Composition
- • MUS 267C - Applied Study: Jazz Composition
- • MUS 268 - Applied Study: Conducting
- • MUS 269A - Applied Study: Jazz Trumpet
- • MUS 269B - Applied Study: Jazz Trombone
- • MUS 269C - Applied Study: Jazz Saxophone
- • MUS 269D - Applied Study: Jazz Guitar
- • MUS 269E - Applied Study: Jazz Bass
- • MUS 269F - Applied Study: Jazz Drums and Percussion

Music: Applied Study (UD)

- • MUS 461A - Applied Study: Piano
- • MUS 461B - Applied Study: Harpsichord
- • MUS 461C - Applied Study: Organ
- • MUS 462 - Applied Study: Voice
- • MUS 463A - Applied Study: Violin
- • MUS 463B - Applied Study: Viola
- • MUS 463C - Applied Study: Cello
- • MUS 463D - Applied Study: Double Bass
- • MUS 463E - Applied Study: Classical Guitar
- • MUS 463F - Applied Study: Harp
- • MUS 464A - Applied Study: Flute
- • MUS 464B - Applied Study: Clarinet
- • MUS 464C - Applied Study: Saxophone
- • MUS 464D - Applied Study: Oboe
- • MUS 464E - Applied Study: Bassoon
- • MUS 465A - Applied Study: Trumpet
- • MUS 465B - Applied Study: French Horn
- • MUS 465C - Applied Study: Trombone

- MUS 465D - Applied Study: Euphonium
- MUS 465E - Applied Study: Tuba
- MUS 466 - Applied Study: Percussion
- MUS 467A - Applied Study: Composition
- MUS 467B - Applied Study: Interactive and Media Composition
- MUS 467C - Applied Study: Jazz Composition
- MUS 468 - Applied Study: Conducting
- MUS 469A - Applied Study: Jazz Trumpet
- MUS 469B - Applied Study: Jazz Trombone
- MUS 469C - Applied Study: Jazz Saxophone
- MUS 469D - Applied Study: Jazz Guitar
- MUS 469E - Applied Study: Jazz Bass
- MUS 469F - Applied Study: Jazz Drums
- MUS 481 - Vocal Coaching
- MUS 482 - Instrumental Coaching

Music: Chamber Ensembles

- MUS 361 - Chamber Wind Ensemble
- MUS 362 - Brass Ensemble
- MUS 363 - Percussion Ensemble
- MUS 364 - African Drumming Ensemble
- MUS 365 - String Ensemble
- MUS 366 - Guitar Ensemble
- MUS 367 - Piano Ensemble
- MUS 368A - Jazz Improvisation Ensemble
- MUS 368B - Jazz Standards Ensemble
- MUS 368C - Contemporary Jazz Ensemble
- MUS 368D - Blue Note Jazz Ensemble
- MUS 368E - Latin Jazz Ensemble
- MUS 368F - Jazz Composers Ensemble
- MUS 369A - Vocal Repertory Ensemble
- MUS 369B - Chamber Singers
- MUS 369C - Jazz Singers
- MUS 370A - Electric Jazz Ensemble
- MUS 370B - Rhythm Section Ensemble
- MUS 370C - Sight-reading Ensemble

Music: Courses for Non-Music Majors

- MUS 104 - Introduction to World Music
- MUS 106 - History of Rock Music
- MUS 106A - History of Hip-Hop
- MUS 106B - Music in Film
- MUS 106C - History of the Blues
- MUS 107 - History of Jazz
- MUS 108 - The Language of Music
- MUS 206 - Arts and Media of the Golden State
- MUS 304 - Introduction to World Music & Culture

Music: Education

- MUS 231 - Teaching String Instruments
- MUS 232 - Teaching Woodwind Instruments
- MUS 233 - Teaching Brass Instruments

- • MUS 234 - Teaching Percussion
- • MUS 235 - Basic Guitar Techniques
- • MUS 236 - Basic Vocal Techniques
- • MUS 238 - Music Education Laboratory Ensemble
- • MUS 331 - Foundations of Music Education
- • MUS 335 - Technology for Music Educators
- • MUS 341 - Basic Conducting
- • MUS 431 - Elementary Music Teaching Methods
- • MUS 432 - Instrumental Music Teaching Methods
- • MUS 433 - Choral Music Teaching Methods
- • MUS 441 - Intermediate Conducting
- • MUS 495 - Music Education Practicum
- • MUS 497 - Contemporary Issues in Music Education

Music: Graduate

- • MUS 600 - Seminar in Research Methodology
- • MUS 608A - Interactivity with Sound & Music I
- • MUS 608B - Interactivity with Sound & Music II
- • MUS 630 - Advanced Conducting
- • MUS 631 - Teaching Music in Higher Education
- • MUS 690 - Independent Study
- • MUS 691 - University Thesis
- • MUS 693 - Project
- • MUS 697 - Issues in Music

Music: Graduate: Applied

- • MUS 660A - Graduate Vocal Coaching
- • MUS 660B - Graduate Instrumental Coaching
- • MUS 661A - Graduate Applied Study: Piano
- • MUS 661B - Graduate Applied Study: Organ
- • MUS 661C - Graduate Applied Study: Harpsichord
- • MUS 661D - Graduate Applied Study: Jazz Piano and Keyboard
- • MUS 662 - Graduate Applied Study: Voice
- • MUS 663A - Graduate Applied Study: Violin
- • MUS 663B - Graduate Applied Study: Viola
- • MUS 663C - Graduate Applied Study: Cello
- • MUS 663D - Graduate Applied Study: Bass
- • MUS 663E - Graduate Applied Study: Harp
- • MUS 663F - Graduate Applied Study: Guitar
- • MUS 664A - Graduate Applied Study: Flute
- • MUS 664B - Graduate Applied Study: Clarinet
- • MUS 664C - Graduate Applied Study: Bassoon
- • MUS 664D - Graduate Applied Study: Saxophone
- • MUS 664E - Graduate Applied Study: Oboe
- • MUS 665A - Graduate Applied Study: Trumpet
- • MUS 665B - Graduate Applied Study: French Horn
- • MUS 665C - Graduate Applied Study: Trombone
- • MUS 665D - Graduate Applied Study: Baritone
- • MUS 665E - Graduate Applied Study: Tuba
- • MUS 666 - Graduate Applied Study: Percussion
- • MUS 667A - Graduate Applied Study: Composition

- • MUS 667B - Graduate Applied Study: Jazz Composition
- • MUS 667C - Graduate Applied Study: Interactive and Media Composition
- • MUS 668 - Graduate Applied Study: Conducting
- • MUS 669A - Graduate Applied Study: Jazz Guitar
- • MUS 669B - Graduate Applied Study: Jazz Bass
- • MUS 669C - Graduate Applied Study: Jazz Drums and Percussion
- • MUS 669D - Graduate Applied Study: Jazz Saxophone
- • MUS 669E - Graduate Applied Study: Jazz Trumpet
- • MUS 669F - Graduate Applied Study: Jazz Trombone

Music: Graduate: History and Literature

- • MUS 601A - Analysis of Musical Styles I
- • MUS 601B - Analysis of Musical Styles II
- • MUS 611 - Seminar in Music of the Medieval & Renaissance Periods
- • MUS 612 - Seminar in Music of the Baroque Period
- • MUS 613 - Seminar in Music of the Classical Period
- • MUS 614 - Seminar in Music of the Nineteenth Century
- • MUS 615 - Seminar in Music of the Twentieth & Twenty-First Centuries
- • MUS 622 - Seminar in Asian Music and Culture

Music: History and Literature

- • MUS 121 - Music Through the Ages
- • MUS 321 - Western Music History I
- • MUS 322 - Western Music History II
- • MUS 323 - Western Music History Topics
- • MUS 421 - Orchestral Literature
- • MUS 423 - Wind Ensemble Literature

Music: Major Performing Ensembles

- • MUS 351A - Singing Society
- • MUS 351B - East Bay Singers
- • MUS 353 - East Bay Wind Symphony
- • MUS 354 - East Bay Orchestra
- • MUS 355 - East Bay Jazz Orchestra

Music: Performance Activities

- • MUS 118A - Basic Keyboard I
- • MUS 118B - Basic Keyboard II
- • MUS 218A - Intermediate Keyboard I
- • MUS 218B - Intermediate Keyboard II
- • MUS 380 - Recital Class - Junior

Music: Theory

- • MUS 111 - Music Theory I
- • MUS 112 - Music Theory II
- • MUS 115 - Aural Skills I
- • MUS 116 - Aural Skills II
- • MUS 211 - Music Theory III
- • MUS 212 - Music Theory IV
- • MUS 215 - Aural Skills III
- • MUS 216 - Aural Skills IV
- • MUS 311 - Analysis of Contemporary Music

- MUS 312 - Form and Analysis
- MUS 316 - Jazz Theory and Composition
- MUS 317A - Improvisation Techniques I
- MUS 317B - Improvisation Techniques II
- MUS 411 - 16th Century Counterpoint
- MUS 412 - 18th Century Counterpoint
- MUS 413 - Instrumentation
- MUS 414 - Orchestration I
- MUS 415 - Orchestration II
- MUS 416 - Jazz Arranging for Large Ensemble

Master

Music, M.A.

Music, M.A. Program

Program Description

The Master of Arts degree in Music is a two-year program that provides advanced study for students with highly developed interests and accomplishments in music. Students are given the opportunity to increase their musicianship, critical skills, and professional insights in preparation for careers in performing, teaching, composing and arranging, administration, and research. It also offers opportunities for current school and college music teachers to increase their professional effectiveness and provides prospective doctoral aspirants with a sound foundation for advanced graduate study.

Students take core courses in graduate-level music theory, history, education, and research, and choose elective courses in an area of emphasis that support their artistic, creative and professional goals. Areas of emphasis include: choral studies, composition, jazz studies, music education, music history, music theory, and performance. All emphases require a culminating recital, creative project, or master's thesis.

Students in our program have opportunities to study with leading performers, composers, and scholars, and to partake in the musical and cultural richness of the San Francisco Bay Area. Emphasis is placed upon maintaining small class sizes and close student-to-teacher interactions. The program also provides flexibility for students to explore further study in areas relevant to their career goals and aspirations.

Beyond the classroom, the Department of Music boasts a thriving music program that includes three choirs, an opera workshop, orchestra, wind orchestra, jazz ensemble, new music ensemble, West African drumming ensemble, and numerous classical and jazz chamber ensembles.

Upon making application to the program, a candidate may be admitted for graduate study in the Department of Music as a "Conditionally Classified Graduate" student if: (1) the general requirements for graduate standing have been met, and (2) the candidate holds a baccalaureate degree with a major in music and an upper division grade point average of at least 3.0 ("B") in music.

Candidates wishing to enroll in the graduate program who do not have a major in music must first complete an equivalency of the Cal State East Bay B.A. degree major in Music. When the equivalency has been completed, the candidate will then be eligible for entrance into the graduate program, subject to the entrance requirements stated below.

Admissions Requirements: All Areas

To apply for admission to the Master of Arts program in Music, students must complete the online university application at CALSTATE Apply. In addition, all graduate candidates must submit the following directly to the Music Department:

- a Statement of Purpose of three to four pages in length (typed, double-spaced) that should describe the candidate's background and musical training, goals for his or her time in the program, and his or her professional goals and aspirations,
- two letters of recommendation, on letterhead, from individuals familiar with his or her work or performance abilities.

Choral Music

Those wishing to pursue an emphasis in Choral Music must submit a video recording (online link) of at least 15 minutes of a rehearsal with a choral ensemble. Candidates may optionally include a video of a concert performance in addition to the rehearsal video. Finalists will be invited to campus to audition with one of the Cal State East Bay choral ensembles. Preference will be given to candidates who apply to the Music Department by March 1.

Composition

Those wishing to pursue an emphasis in composition must submit a portfolio that includes at least two samples of their work written for different media, preferably with an accompanying audio or video recording (online link).

Jazz Studies

Those wishing to pursue an emphasis in jazz studies must complete an in-person audition or submit an audition video recording (online link), preferably of a recent performance or recital.

Music Education

Those wishing to pursue an emphasis in music education must submit a copy of their California Teaching Credential and evidence of a minimum of two years full-time teaching at the K-12th grade levels. In addition to the statement of purpose, they must also submit a video recording (online link) of at least 20 minutes of a class or rehearsal in a K-12 school.

Music History

Those wishing to pursue an emphasis in music history must submit a sample of their academic writing, preferably a thesis, term paper, or published article on a subject in music history or world music that demonstrate their research and writing skills and their abilities to think critically;

Music Theory

Those wishing to pursue an emphasis in music theory must submit a sample of their academic writing, preferably a thesis, term paper, or published article on a subject in music theory that demonstrate their analytical, research and writing skills and their abilities to think critically;

Performance

Those wishing to pursue an emphasis in performance must complete an in-person audition or submit an audition video recording (online link), preferably of a recent performance or recital.

Graduate Music Advisory Examinations

The Graduate Music Advisory Examinations, given by the Department of Music, must be taken prior to the beginning of the student's first semester in residence. Areas of examination include dictation, music history, piano proficiency, and music theory. Contact the department for the date of these examinations.

Classification in the Program

A student may be a "Classified Graduate" student if (s)he:

- Has completed all undergraduate deficiencies;
- Has completed at least 21 semester units in residence, with a minimum of 15 at the 600-level applicable toward the master's degree, including Music 600, with a minimum grade point average of 3.0;
- Has passed the Graduate Advisory Examinations in dictation, music history, piano proficiency, and music theory. The Graduate Advisory Examinations must be passed by the time the student has completed 20 units applicable to the degree or the student will be dropped from the program;
- As a graduate student pursuing the music history and music theory areas of emphasis, has demonstrated reading ability in French, German, or Italian; other languages may be substituted by approval of the department;
- Has fulfilled the University Writing Skills Requirement. For information on meeting the University Writing Skills Requirement, see the Testing Office website at www.csueastbay.edu/testing.

Advancement to Candidacy

A student who holds "Classified Graduate" standing may be considered for Advancement to Candidacy when (s)he:

- Has filed a study program for the completion of the degree which has been approved by the departmental Graduate Studies Committee;
- If electing the performance emphasis, has successfully demonstrated a graduate standard of excellence before an auditions committee.

Degree Requirements

To be eligible for the Master of Arts degree a student must:

- Be Advanced to Candidacy;
- Complete 30 units of approved courses of which:
 - 21 must be completed in residence;
 - A minimum of 15 must be at the 600 level;
 - A minimum of 6 units must be in one (1) of the seven possible areas of emphasis:
 - choral music,
 - composition,
 - theory,
 - jazz studies,
 - music education,

- music history, or
 - performance;
 - Not more than 8 units of applied music will be counted in the performance area of emphasis and electives;
 - Up to, but no more than 2 units of applied music, when approved by the graduate coordinator and department chair, may be applied toward degree requirements by candidates outside the performance area of emphasis;
 - Up to, but no more than 6 units of study outside of music may be counted toward the degree (these units must be approved by a graduate coordinator and must be at the 300-level or above);
 - Performance emphasis candidates must complete 3 units of performance activities (large and/or chamber ensembles)
 - Present a capstone project in one (1) of the following forms:
 - In music history, music theory, and music education, a standard research thesis (University Thesis, MUS 691);
 - In composition, a project consisting of an original composition and analysis of that composition (Project, MUS 693);
 - In choral music, jazz studies and performance, a final graduate recital plus program notes on the repertoire performed (Project, MUS 693);
 - Pass the departmental exit examination (both written and oral) upon completion of all coursework.
- The candidate must observe the specific departmental requirements stated here and in the Handbook for Music Majors.

Program Learning Outcomes

Students graduating with an M.A. in Music from Cal State East Bay will be able to:

- Demonstrate mastery of core skills within their primary area of emphasis, i.e. performance, composition, research, analysis, conducting, or teaching;
- Apply critical and creative thinking and analytical reasoning to address complex challenges in music creation, performance, and research;
- Work collaboratively and respectfully with other musicians in a performance context; and
- Integrate musical ideas, methods, theory, and practice, and communicate them to others clearly and persuasively, in classroom and performance settings.

Music Degree Requirements (30 units)

Core Courses

All the following core courses for 15 units are required:

- MUS 600 - Seminar in Research Methodology *Units: 3 ; G.E./G.R. Area: UWSR*
- MUS 601A - Analysis of Musical Styles I *Units: 3*
- MUS 615 - Seminar in Music of the Twentieth & Twenty-First Centuries
Units: 3
- MUS 622 - Seminar in Asian Music and Culture *Units: 3*
- MUS 631 - Teaching Music in Higher Education *Units: 3*

Area of Emphasis

A minimum of 6 units of coursework in one (1) of the following areas of emphasis is required:

- Choral Music
- Composition
- Jazz Studies
- Music Education
- Music History
- Music Theory
- Performance

Elective Courses

Select 6 units in Music courses not taken in areas above. Up to 6 units outside of Music may be taken with approval. Please meet with your graduate advisor to select the appropriate electives for your area of emphasis and capstone experience.

Capstone Requirement

All M.A. Music students must pass a written and oral examination in order to graduate. In addition, students must complete either a university thesis or project for a minimum of 3 units:

- Students in Choral Music, Jazz Studies, and Performance must complete a project consisting of a graduate recital with performance notes (MUS 693).
- Students in Composition must complete a project consisting of an original composition and analysis of that composition (MUS 693).
- Students in Music Education, Music History or Music Theory must complete a university thesis (MUS 691).
See details in program description section above.
- MUS 691 - University Thesis *Units: 1-4*
- MUS 693 - Project *Units: 1-3*

Other Graduate & Post-Baccalaureate Degree Requirements

In addition to departmental requirements, every student must also satisfy the University requirements for graduation as described throughout this catalog. These include the 70% unit residence requirement; the five-year rule on currency of subject matter; the minimum number of units in 600-level courses; the "C" minimum grade for each graduate course; the 3.00 cumulative grade point average; and the University Writing Skills Requirement.

Note: For information on meeting the University Writing Skills Requirement, see the Testing Office website at www.csueastbay.edu/testing or call (510) 885-3661.

Department Courses Listed by Course Type

Music Courses

Department of Music

Courses

Music

- • MUS 281 - Vocal Coaching
- • MUS 282 - Instrumental Coaching
- • MUS 302 - What to Listen for in Music
- • MUS 398 - Internship
- • MUS 480 - Recital Class - Senior
- • MUS 490 - Independent Study

Music: Applied Study (LD)

- • MUS 261A - Applied Study: Piano
- • MUS 261B - Applied Study: Harpsichord
- • MUS 261C - Applied Study: Organ
- • MUS 262 - Applied Study: Voice
- • MUS 263A - Applied Study: Violin
- • MUS 263B - Applied Study: Viola
- • MUS 263C - Applied Study: Cello
- • MUS 263D - Applied Study: Double Bass
- • MUS 263E - Applied Study: Classic'l Guitar
- • MUS 263F - Applied Study: Harp
- • MUS 264A - Applied Study: Flute
- • MUS 264B - Applied Study: Clarinet
- • MUS 264C - Applied Study: Saxophone
- • MUS 264D - Applied Study: Oboe
- • MUS 264E - Applied Study: Bassoon
- • MUS 265A - Applied Study: Trumpet
- • MUS 265B - Applied Study: French Horn
- • MUS 265C - Applied Study: Trombone
- • MUS 265D - Applied Study: Euphonium
- • MUS 265E - Applied Study: Tuba
- • MUS 266 - Applied Study: Percussion
- • MUS 267A - Applied Study: Composition
- • MUS 267B - Applied Study: Interactive and Media Composition
- • MUS 267C - Applied Study: Jazz Composition
- • MUS 268 - Applied Study: Conducting
- • MUS 269A - Applied Study: Jazz Trumpet
- • MUS 269B - Applied Study: Jazz Trombone
- • MUS 269C - Applied Study: Jazz Saxophone
- • MUS 269D - Applied Study: Jazz Guitar
- • MUS 269E - Applied Study: Jazz Bass
- • MUS 269F - Applied Study: Jazz Drums and Percussion

Music: Applied Study (UD)

- • MUS 461A - Applied Study: Piano
- • MUS 461B - Applied Study: Harpsichord
- • MUS 461C - Applied Study: Organ
- • MUS 462 - Applied Study: Voice
- • MUS 463A - Applied Study: Violin
- • MUS 463B - Applied Study: Viola

- MUS 463C - Applied Study: Cello
- MUS 463D - Applied Study: Double Bass
- MUS 463E - Applied Study: Classical Guitar
- MUS 463F - Applied Study: Harp
- MUS 464A - Applied Study: Flute
- MUS 464B - Applied Study: Clarinet
- MUS 464C - Applied Study: Saxophone
- MUS 464D - Applied Study: Oboe
- MUS 464E - Applied Study: Bassoon
- MUS 465A - Applied Study: Trumpet
- MUS 465B - Applied Study: French Horn
- MUS 465C - Applied Study: Trombone
- MUS 465D - Applied Study: Euphonium
- MUS 465E - Applied Study: Tuba
- MUS 466 - Applied Study: Percussion
- MUS 467A - Applied Study: Composition
- MUS 467B - Applied Study: Interactive and Media Composition
- MUS 467C - Applied Study: Jazz Composition
- MUS 468 - Applied Study: Conducting
- MUS 469A - Applied Study: Jazz Trumpet
- MUS 469B - Applied Study: Jazz Trombone
- MUS 469C - Applied Study: Jazz Saxophone
- MUS 469D - Applied Study: Jazz Guitar
- MUS 469E - Applied Study: Jazz Bass
- MUS 469F - Applied Study: Jazz Drums
- MUS 481 - Vocal Coaching
- MUS 482 - Instrumental Coaching

Music: Chamber Ensembles

- MUS 361 - Chamber Wind Ensemble
- MUS 362 - Brass Ensemble
- MUS 363 - Percussion Ensemble
- MUS 364 - African Drumming Ensemble
- MUS 365 - String Ensemble
- MUS 366 - Guitar Ensemble
- MUS 367 - Piano Ensemble
- MUS 368A - Jazz Improvisation Ensemble
- MUS 368B - Jazz Standards Ensemble
- MUS 368C - Contemporary Jazz Ensemble
- MUS 368D - Blue Note Jazz Ensemble
- MUS 368E - Latin Jazz Ensemble
- MUS 368F - Jazz Composers Ensemble
- MUS 369A - Vocal Repertory Ensemble
- MUS 369B - Chamber Singers
- MUS 369C - Jazz Singers
- MUS 370A - Electric Jazz Ensemble
- MUS 370B - Rhythm Section Ensemble
- MUS 370C - Sight-reading Ensemble

Music: Courses for Non-Music Majors

- MUS 104 - Introduction to World Music

- • MUS 106 - History of Rock Music
- • MUS 106A - History of Hip-Hop
- • MUS 106B - Music in Film
- • MUS 106C - History of the Blues
- • MUS 107 - History of Jazz
- • MUS 108 - The Language of Music
- • MUS 206 - Arts and Media of the Golden State
- • MUS 304 - Introduction to World Music & Culture

Music: Education

- • MUS 231 - Teaching String Instruments
- • MUS 232 - Teaching Woodwind Instruments
- • MUS 233 - Teaching Brass Instruments
- • MUS 234 - Teaching Percussion
- • MUS 235 - Basic Guitar Techniques
- • MUS 236 - Basic Vocal Techniques
- • MUS 238 - Music Education Laboratory Ensemble
- • MUS 331 - Foundations of Music Education
- • MUS 335 - Technology for Music Educators
- • MUS 341 - Basic Conducting
- • MUS 431 - Elementary Music Teaching Methods
- • MUS 432 - Instrumental Music Teaching Methods
- • MUS 433 - Choral Music Teaching Methods
- • MUS 441 - Intermediate Conducting
- • MUS 495 - Music Education Practicum
- • MUS 497 - Contemporary Issues in Music Education

Music: Graduate

- • MUS 600 - Seminar in Research Methodology
- • MUS 608A - Interactivity with Sound & Music I
- • MUS 608B - Interactivity with Sound & Music II
- • MUS 630 - Advanced Conducting
- • MUS 631 - Teaching Music in Higher Education
- • MUS 690 - Independent Study
- • MUS 691 - University Thesis
- • MUS 693 - Project
- • MUS 697 - Issues in Music

Music: Graduate: Applied

- • MUS 660A - Graduate Vocal Coaching
- • MUS 660B - Graduate Instrumental Coaching
- • MUS 661A - Graduate Applied Study: Piano
- • MUS 661B - Graduate Applied Study: Organ
- • MUS 661C - Graduate Applied Study: Harpsichord
- • MUS 661D - Graduate Applied Study: Jazz Piano and Keyboard
- • MUS 662 - Graduate Applied Study: Voice
- • MUS 663A - Graduate Applied Study: Violin
- • MUS 663B - Graduate Applied Study: Viola
- • MUS 663C - Graduate Applied Study: Cello
- • MUS 663D - Graduate Applied Study: Bass
- • MUS 663E - Graduate Applied Study: Harp
- • MUS 663F - Graduate Applied Study: Guitar

- • MUS 664A - Graduate Applied Study: Flute
- • MUS 664B - Graduate Applied Study: Clarinet
- • MUS 664C - Graduate Applied Study: Bassoon
- • MUS 664D - Graduate Applied Study: Saxophone
- • MUS 664E - Graduate Applied Study: Oboe
- • MUS 665A - Graduate Applied Study: Trumpet
- • MUS 665B - Graduate Applied Study: French Horn
- • MUS 665C - Graduate Applied Study: Trombone
- • MUS 665D - Graduate Applied Study: Baritone
- • MUS 665E - Graduate Applied Study: Tuba
- • MUS 666 - Graduate Applied Study: Percussion
- • MUS 667A - Graduate Applied Study: Composition
- • MUS 667B - Graduate Applied Study: Jazz Composition
- • MUS 667C - Graduate Applied Study: Interactive and Media Composition
- • MUS 668 - Graduate Applied Study: Conducting
- • MUS 669A - Graduate Applied Study: Jazz Guitar
- • MUS 669B - Graduate Applied Study: Jazz Bass
- • MUS 669C - Graduate Applied Study: Jazz Drums and Percussion
- • MUS 669D - Graduate Applied Study: Jazz Saxophone
- • MUS 669E - Graduate Applied Study: Jazz Trumpet
- • MUS 669F - Graduate Applied Study: Jazz Trombone

Music: Graduate: History and Literature

- • MUS 601A - Analysis of Musical Styles I
- • MUS 601B - Analysis of Musical Styles II
- • MUS 611 - Seminar in Music of the Medieval & Renaissance Periods
- • MUS 612 - Seminar in Music of the Baroque Period
- • MUS 613 - Seminar in Music of the Classical Period
- • MUS 614 - Seminar in Music of the Nineteenth Century
- • MUS 615 - Seminar in Music of the Twentieth & Twenty-First Centuries
- • MUS 622 - Seminar in Asian Music and Culture

Music: History and Literature

- • MUS 121 - Music Through the Ages
- • MUS 321 - Western Music History I
- • MUS 322 - Western Music History II
- • MUS 323 - Western Music History Topics
- • MUS 421 - Orchestral Literature
- • MUS 423 - Wind Ensemble Literature

Music: Major Performing Ensembles

- • MUS 351A - Singing Society
- • MUS 351B - East Bay Singers
- • MUS 353 - East Bay Wind Symphony
- • MUS 354 - East Bay Orchestra
- • MUS 355 - East Bay Jazz Orchestra

Music: Performance Activities

- • MUS 118A - Basic Keyboard I
- • MUS 118B - Basic Keyboard II
- • MUS 218A - Intermediate Keyboard I
- • MUS 218B - Intermediate Keyboard II

- MUS 380 - Recital Class - Junior
- Music: Theory**
- MUS 111 - Music Theory I
 - MUS 112 - Music Theory II
 - MUS 115 - Aural Skills I
 - MUS 116 - Aural Skills II
 - MUS 211 - Music Theory III
 - MUS 212 - Music Theory IV
 - MUS 215 - Aural Skills III
 - MUS 216 - Aural Skills IV
 - MUS 311 - Analysis of Contemporary Music
 - MUS 312 - Form and Analysis
 - MUS 316 - Jazz Theory and Composition
 - MUS 317A - Improvisation Techniques I
 - MUS 317B - Improvisation Techniques II
 - MUS 411 - 16th Century Counterpoint
 - MUS 412 - 18th Century Counterpoint
 - MUS 413 - Instrumentation
 - MUS 414 - Orchestration I
 - MUS 415 - Orchestration II
 - MUS 416 - Jazz Arranging for Large Ensemble

Minor

Music Minor

Minor Requirements (21 units)

Note: To be admitted to the minor program, the student must demonstrate vocal or instrumental performing ability. Applied instruction will be limited to two semesters of study.

Required Courses

Take the following 8 units:

- MUS 111 - Music Theory I *Units: 3 ; G.E./G.R. Area: C1*
- MUS 112 - Music Theory II *Units: 3*
- MUS 115 - Aural Skills I *Units: 1*
- MUS 116 - Aural Skills II *Units: 1*

Basic Keyboard

Placement determined by instructor. Take 2 units from the following:

- MUS 118A - Basic Keyboard I *Units: 1*
- MUS 118B - Basic Keyboard II *Units: 1*
- MUS 218A - Intermediate Keyboard I *Units: 1*

- MUS 218B - Intermediate Keyboard II *Units: 1*

Major Performing Ensembles

Audition Required. Take 3 units from the following:

- MUS 351B - East Bay Singers *Units: 1*
- MUS 351A - Singing Society *Units: 1*
- MUS 353 - East Bay Wind Symphony *Units: 1*
- MUS 354 - East Bay Orchestra *Units: 1*
- MUS 355 - East Bay Jazz Orchestra *Units: 1*

Applied Music Study

Audition required for acceptance into Applied Music Study. Applied Study is limited to 2 semesters. Take 2 units from the following:

- MUS 261A - Applied Study: Piano *Units: 1*
- MUS 261C - Applied Study: Organ *Units: 1*
- MUS 262 - Applied Study: Voice *Units: 1*
- MUS 263A - Applied Study: Violin *Units: 1*
- MUS 263B - Applied Study: Viola *Units: 1*
- MUS 263C - Applied Study: Cello *Units: 1*
- MUS 263D - Applied Study: Double Bass *Units: 1*
- MUS 263E - Applied Study: Classic'l Guitar *Units: 1*
- MUS 263F - Applied Study: Harp *Units: 1*
- MUS 264A - Applied Study: Flute *Units: 1*
- MUS 264B - Applied Study: Clarinet *Units: 1*
- MUS 264C - Applied Study: Saxophone *Units: 1*
- MUS 264D - Applied Study: Oboe *Units: 1*
- MUS 264E - Applied Study: Bassoon *Units: 1*
- MUS 265A - Applied Study: Trumpet *Units: 1*
- MUS 265B - Applied Study: French Horn *Units: 1*
- MUS 265C - Applied Study: Trombone *Units: 1*
- MUS 265D - Applied Study: Euphonium *Units: 1*
- MUS 265E - Applied Study: Tuba *Units: 1*
- MUS 266 - Applied Study: Percussion *Units: 1*
- MUS 269A - Applied Study: Jazz Trumpet *Units: 1*
- MUS 269B - Applied Study: Jazz Trombone *Units: 1*
- MUS 269C - Applied Study: Jazz Saxophone *Units: 1*
- MUS 269D - Applied Study: Jazz Guitar *Units: 1*
- MUS 269E - Applied Study: Jazz Bass *Units: 1*
- MUS 269F - Applied Study: Jazz Drums and Percussion *Units: 1*
- MUS 261B - Applied Study: Harpsichord *Units: 1*

- MUS 267A - Applied Study: Composition *Units: 1*

Upper Division Electives

Take 6 units from the following in consultation with departmental advisor. *Note: MUS 351-MUS 355 are repeatable courses up to 8 total units. MUS 364 is repeatable up to 4 units.*

- MUS 302 - What to Listen for in Music *Units: 3 ; G.E./G.R. Area: C4*
- MUS 304 - Introduction to World Music & Culture *Units: 3 ; G.E./G.R. Area: C4*
- MUS 351B - East Bay Singers *Units: 1*
- MUS 351A - Singing Society *Units: 1*
- MUS 353 - East Bay Wind Symphony *Units: 1*
- MUS 354 - East Bay Orchestra *Units: 1*
- MUS 355 - East Bay Jazz Orchestra *Units: 1*
- MUS 364 - African Drumming Ensemble *Units: 1*

Department Courses Listed by Course Type

Music Courses

Department of Music

Courses

Music

- • MUS 281 - Vocal Coaching
- • MUS 282 - Instrumental Coaching
- • MUS 302 - What to Listen for in Music
- • MUS 398 - Internship
- • MUS 480 - Recital Class - Senior
- • MUS 490 - Independent Study

Music: Applied Study (LD)

- • MUS 261A - Applied Study: Piano
- • MUS 261B - Applied Study: Harpsichord
- • MUS 261C - Applied Study: Organ
- • MUS 262 - Applied Study: Voice
- • MUS 263A - Applied Study: Violin
- • MUS 263B - Applied Study: Viola
- • MUS 263C - Applied Study: Cello
- • MUS 263D - Applied Study: Double Bass
- • MUS 263E - Applied Study: Classic'l Guitar
- • MUS 263F - Applied Study: Harp
- • MUS 264A - Applied Study: Flute
- • MUS 264B - Applied Study: Clarinet
- • MUS 264C - Applied Study: Saxophone
- • MUS 264D - Applied Study: Oboe

- • MUS 264E - Applied Study: Bassoon
- • MUS 265A - Applied Study: Trumpet
- • MUS 265B - Applied Study: French Horn
- • MUS 265C - Applied Study: Trombone
- • MUS 265D - Applied Study: Euphonium
- • MUS 265E - Applied Study: Tuba
- • MUS 266 - Applied Study: Percussion
- • MUS 267A - Applied Study: Composition
- • MUS 267B - Applied Study: Interactive and Media Composition
- • MUS 267C - Applied Study: Jazz Composition
- • MUS 268 - Applied Study: Conducting
- • MUS 269A - Applied Study: Jazz Trumpet
- • MUS 269B - Applied Study: Jazz Trombone
- • MUS 269C - Applied Study: Jazz Saxophone
- • MUS 269D - Applied Study: Jazz Guitar
- • MUS 269E - Applied Study: Jazz Bass
- • MUS 269F - Applied Study: Jazz Drums and Percussion

Music: Applied Study (UD)

- • MUS 461A - Applied Study: Piano
- • MUS 461B - Applied Study: Harpsichord
- • MUS 461C - Applied Study: Organ
- • MUS 462 - Applied Study: Voice
- • MUS 463A - Applied Study: Violin
- • MUS 463B - Applied Study: Viola
- • MUS 463C - Applied Study: Cello
- • MUS 463D - Applied Study: Double Bass
- • MUS 463E - Applied Study: Classical Guitar
- • MUS 463F - Applied Study: Harp
- • MUS 464A - Applied Study: Flute
- • MUS 464B - Applied Study: Clarinet
- • MUS 464C - Applied Study: Saxophone
- • MUS 464D - Applied Study: Oboe
- • MUS 464E - Applied Study: Bassoon
- • MUS 465A - Applied Study: Trumpet
- • MUS 465B - Applied Study: French Horn
- • MUS 465C - Applied Study: Trombone
- • MUS 465D - Applied Study: Euphonium
- • MUS 465E - Applied Study: Tuba
- • MUS 466 - Applied Study: Percussion
- • MUS 467A - Applied Study: Composition
- • MUS 467B - Applied Study: Interactive and Media Composition
- • MUS 467C - Applied Study: Jazz Composition
- • MUS 468 - Applied Study: Conducting
- • MUS 469A - Applied Study: Jazz Trumpet
- • MUS 469B - Applied Study: Jazz Trombone
- • MUS 469C - Applied Study: Jazz Saxophone
- • MUS 469D - Applied Study: Jazz Guitar
- • MUS 469E - Applied Study: Jazz Bass
- • MUS 469F - Applied Study: Jazz Drums
- • MUS 481 - Vocal Coaching

- • MUS 482 - Instrumental Coaching

Music: Chamber Ensembles

- • MUS 361 - Chamber Wind Ensemble
- • MUS 362 - Brass Ensemble
- • MUS 363 - Percussion Ensemble
- • MUS 364 - African Drumming Ensemble
- • MUS 365 - String Ensemble
- • MUS 366 - Guitar Ensemble
- • MUS 367 - Piano Ensemble
- • MUS 368A - Jazz Improvisation Ensemble
- • MUS 368B - Jazz Standards Ensemble
- • MUS 368C - Contemporary Jazz Ensemble
- • MUS 368D - Blue Note Jazz Ensemble
- • MUS 368E - Latin Jazz Ensemble
- • MUS 368F - Jazz Composers Ensemble
- • MUS 369A - Vocal Repertory Ensemble
- • MUS 369B - Chamber Singers
- • MUS 369C - Jazz Singers
- • MUS 370A - Electric Jazz Ensemble
- • MUS 370B - Rhythm Section Ensemble
- • MUS 370C - Sight-reading Ensemble

Music: Courses for Non-Music Majors

- • MUS 104 - Introduction to World Music
- • MUS 106 - History of Rock Music
- • MUS 106A - History of Hip-Hop
- • MUS 106B - Music in Film
- • MUS 106C - History of the Blues
- • MUS 107 - History of Jazz
- • MUS 108 - The Language of Music
- • MUS 206 - Arts and Media of the Golden State
- • MUS 304 - Introduction to World Music & Culture

Music: Education

- • MUS 231 - Teaching String Instruments
- • MUS 232 - Teaching Woodwind Instruments
- • MUS 233 - Teaching Brass Instruments
- • MUS 234 - Teaching Percussion
- • MUS 235 - Basic Guitar Techniques
- • MUS 236 - Basic Vocal Techniques
- • MUS 238 - Music Education Laboratory Ensemble
- • MUS 331 - Foundations of Music Education
- • MUS 335 - Technology for Music Educators
- • MUS 341 - Basic Conducting
- • MUS 431 - Elementary Music Teaching Methods
- • MUS 432 - Instrumental Music Teaching Methods
- • MUS 433 - Choral Music Teaching Methods
- • MUS 441 - Intermediate Conducting
- • MUS 495 - Music Education Practicum
- • MUS 497 - Contemporary Issues in Music Education

Music: Graduate

- • MUS 600 - Seminar in Research Methodology
- • MUS 608A - Interactivity with Sound & Music I
- • MUS 608B - Interactivity with Sound & Music II
- • MUS 630 - Advanced Conducting
- • MUS 631 - Teaching Music in Higher Education
- • MUS 690 - Independent Study
- • MUS 691 - University Thesis
- • MUS 693 - Project
- • MUS 697 - Issues in Music

Music: Graduate: Applied

- • MUS 660A - Graduate Vocal Coaching
- • MUS 660B - Graduate Instrumental Coaching
- • MUS 661A - Graduate Applied Study: Piano
- • MUS 661B - Graduate Applied Study: Organ
- • MUS 661C - Graduate Applied Study: Harpsichord
- • MUS 661D - Graduate Applied Study: Jazz Piano and Keyboard
- • MUS 662 - Graduate Applied Study: Voice
- • MUS 663A - Graduate Applied Study: Violin
- • MUS 663B - Graduate Applied Study: Viola
- • MUS 663C - Graduate Applied Study: Cello
- • MUS 663D - Graduate Applied Study: Bass
- • MUS 663E - Graduate Applied Study: Harp
- • MUS 663F - Graduate Applied Study: Guitar
- • MUS 664A - Graduate Applied Study: Flute
- • MUS 664B - Graduate Applied Study: Clarinet
- • MUS 664C - Graduate Applied Study: Bassoon
- • MUS 664D - Graduate Applied Study: Saxophone
- • MUS 664E - Graduate Applied Study: Oboe
- • MUS 665A - Graduate Applied Study: Trumpet
- • MUS 665B - Graduate Applied Study: French Horn
- • MUS 665C - Graduate Applied Study: Trombone
- • MUS 665D - Graduate Applied Study: Baritone
- • MUS 665E - Graduate Applied Study: Tuba
- • MUS 666 - Graduate Applied Study: Percussion
- • MUS 667A - Graduate Applied Study: Composition
- • MUS 667B - Graduate Applied Study: Jazz Composition
- • MUS 667C - Graduate Applied Study: Interactive and Media Composition
- • MUS 668 - Graduate Applied Study: Conducting
- • MUS 669A - Graduate Applied Study: Jazz Guitar
- • MUS 669B - Graduate Applied Study: Jazz Bass
- • MUS 669C - Graduate Applied Study: Jazz Drums and Percussion
- • MUS 669D - Graduate Applied Study: Jazz Saxophone
- • MUS 669E - Graduate Applied Study: Jazz Trumpet
- • MUS 669F - Graduate Applied Study: Jazz Trombone

Music: Graduate: History and Literature

- • MUS 601A - Analysis of Musical Styles I
- • MUS 601B - Analysis of Musical Styles II
- • MUS 611 - Seminar in Music of the Medieval & Renaissance Periods
- • MUS 612 - Seminar in Music of the Baroque Period

- • MUS 613 - Seminar in Music of the Classical Period
- • MUS 614 - Seminar in Music of the Nineteenth Century
- • MUS 615 - Seminar in Music of the Twentieth & Twenty-First Centuries
- • MUS 622 - Seminar in Asian Music and Culture

Music: History and Literature

- • MUS 121 - Music Through the Ages
- • MUS 321 - Western Music History I
- • MUS 322 - Western Music History II
- • MUS 323 - Western Music History Topics
- • MUS 421 - Orchestral Literature
- • MUS 423 - Wind Ensemble Literature

Music: Major Performing Ensembles

- • MUS 351A - Singing Society
- • MUS 351B - East Bay Singers
- • MUS 353 - East Bay Wind Symphony
- • MUS 354 - East Bay Orchestra
- • MUS 355 - East Bay Jazz Orchestra

Music: Performance Activities

- • MUS 118A - Basic Keyboard I
- • MUS 118B - Basic Keyboard II
- • MUS 218A - Intermediate Keyboard I
- • MUS 218B - Intermediate Keyboard II
- • MUS 380 - Recital Class - Junior

Music: Theory

- • MUS 111 - Music Theory I
- • MUS 112 - Music Theory II
- • MUS 115 - Aural Skills I
- • MUS 116 - Aural Skills II
- • MUS 211 - Music Theory III
- • MUS 212 - Music Theory IV
- • MUS 215 - Aural Skills III
- • MUS 216 - Aural Skills IV
- • MUS 311 - Analysis of Contemporary Music
- • MUS 312 - Form and Analysis
- • MUS 316 - Jazz Theory and Composition
- • MUS 317A - Improvisation Techniques I
- • MUS 317B - Improvisation Techniques II
- • MUS 411 - 16th Century Counterpoint
- • MUS 412 - 18th Century Counterpoint
- • MUS 413 - Instrumentation
- • MUS 414 - Orchestration I
- • MUS 415 - Orchestration II
- • MUS 416 - Jazz Arranging for Large Ensemble

Single Subject Matter Preparation Certificate Programs

Music Single Subject Matter Preparation Certificate

The 31-unit Single Subject Matter Preparation Program in Music is a sequence of courses designed to prepare music students to become successful music teachers in K-12 school settings. Students receive education in a variety of musical disciplines and pedagogical approaches, including choral, instrumental, general, and world music. The program is approved by the California Commission on Teacher Credentialing. All music students may take the Subject Matter Preparation Program courses although, in order for students to obtain documentation of completing the program, they must take every course within the program.

Secondary Techniques

Six (6) units in performance and pedagogy of standard orchestral instruments, voice, and guitar are required:

- MUS 231 - Teaching String Instruments *Units: 1*
- MUS 232 - Teaching Woodwind Instruments *Units: 1*
- MUS 233 - Teaching Brass Instruments *Units: 1*
- MUS 234 - Teaching Percussion *Units: 1*
- MUS 235 - Basic Guitar Techniques *Units: 1*
- MUS 236 - Basic Vocal Techniques *Units: 1*

Conducting

Six (6) units of developmental basic skills in conducting, as well as more specific skills for choral and instrumental settings are required:

- MUS 341 - Basic Conducting *Units: 3*
- MUS 441 - Intermediate Conducting *Units: 3*

Music Education Core Courses

The following ten (10) units are required of all music education students:

- MUS 335 - Technology for Music Educators *Units: 3*
- MUS 304 - Introduction to World Music & Culture *Units: 3 ; G.E./G.R. Area: C4*
- MUS 331 - Foundations of Music Education *Units: 3*
- MUS 495 - Music Education Practicum *Units: 1*

Music Teaching and Learning

These required nine (9) units focus on specific disciplines within music teaching and learning. They are designed to prepare future music educators to teach in a variety of K-12 areas, including instrumental, choral, and elementary music teaching settings.

- MUS 431 - Elementary Music Teaching Methods *Units: 3*
- MUS 432 - Instrumental Music Teaching Methods *Units: 3*
- MUS 433 - Choral Music Teaching Methods *Units: 3*

Department of Nursing

The Department Office is located on the 5th Floor of the Student and Faculty Support (SF) building, Room 502.

Open 8:00 a.m. - 5:00 p.m., Monday - Friday.

Dept. Phone: (510) 885-3481

Faculty

Professors

Roberta F. Durham, Ph.D. University of California, San Francisco

Kimberly H. Kim, Ph.D. University of Wisconsin

Lindsay McCrea, Ph.D. University of California, San Francisco

Lynn A. Van Hofwegen (Chair), D.N.P. Case Western Reserve University

Associate Professors

Maria Cho, Ph.D. University of California, San Francisco

Denise Li, Ph.D. University of California, San Francisco

Assistant Professors

Daniel Doolan, Ph.D. University of California, San Francisco

Monika Britt Eckfield, Ph.D. University of California, San Francisco

Renee M. Granados, Ed.D. University of San Francisco

Sahar Nouredini, Ph.D. University of California, San Francisco

Claire Valderama-Wallace, MS University of California, San Francisco

Jennifer Winters, Ph.D. Walden University

Mission Statement

The mission of the baccalaureate nursing program at CSUEB is to prepare professional nurse generalists who are committed to the practice of nursing and responsive to the ever changing needs of the communities we serve. The program therefore seeks to provide an inclusive community of learning focused primarily on undergraduate nursing education and the development of lifelong learners.

The nursing program supports and reflects the University mission of quality education for a diverse society. We value a diverse workforce, a diverse nursing student body, and culturally inclusive

practitioners of nursing who are equipped to provide high quality care and have a transformative influence on nursing practice, healthcare environments, and the health of our community.

About the Department

Use our university website link to learn more about what the Nursing Department has to offer.

- NCLEX Pass Rates
- Degree Roadmaps
- Information Sessions
- Credit for Experience
- Nursing Student Handbook
- Scholarships
- DNP Programs
- Champions of Nursing Excellence
- And more...

Bachelor

Nursing, B.S.: Post-Licensure Concentration

Nursing, B.S. Program (120 units)

Program Description

The Department of Nursing offers an undergraduate program that leads to the Bachelor of Science degree with a major in Nursing. The program is designed to prepare a nurse generalist. Graduates of the program are prepared to work as professional nurses and/or pursue graduate education in nursing. There are two concentrations within the major: the Pre-Licensure concentration and the Post-Licensure concentration.

Program Learning Outcomes

Students graduating with a B.S. in Nursing will be able to:

- Synthesize knowledge from the natural sciences, behavioral sciences and the humanities with current nursing knowledge and theory to deliver nursing care;
- Provide safe, compassionate nursing care to diverse populations;
- Use critical thinking and communication skills to develop partnerships with clients and other healthcare professionals;
- Demonstrate responsibility and accountability for design, delivery, and evaluation of client care;
- Demonstrate professional behaviors in interactions with individuals, families, colleagues, and the community.

Career Opportunities

Graduates of the Nursing Pre-Licensure concentration will be qualified to take the National Council Licensure Examination - Registered Nurse (NCLEX-RN) and to apply for the California Public Health Nursing Certificate. Upon completion of the RN licensure process, the graduate will be able to work as a

Registered Nurse with career opportunities in a wide range of settings including in hospitals, extended care facilities, public health organizations, schools and in other community settings. Graduates of the Post-Licensure concentration are also eligible to apply for the California Public Health Nursing Certificate and have career opportunities as a Bachelor's prepared RN as listed above.

Major Advising

Because requirements are subject to change, consult an adviser in your major department for clarification and interpretation of your major requirements. Additionally, students are encouraged to consult a G.E. advisor in the College of Science for clarification of general education and other University graduation requirements.

Pre-Licensure Concentration

The B.S. in Nursing degree requires a total of 120 units. The Nursing major with a Pre-Licensure concentration is comprised of nursing prerequisites, 14 units of core courses and electives, and 57 units in the concentration. The remainder of the units in the degree consist of general education and graduation requirements. Students complete two years of prerequisite courses before admission to the Pre-Licensure concentration, which consists of five semesters of nursing courses. Nursing courses have concurrent laboratories on campus and clinical practicum courses in local hospitals and community settings. Expenses for clinical courses include the purchase of uniforms, stethoscopes, malpractice insurance, personal health insurance, and other necessary personal supplies.

The Pre-Licensure concentration program is approved by the State of California Board of Registered Nursing (Tel: 916 322-3350) and both the Pre-Licensure and the Post-Licensure Concentration are accredited by the Commission on Collegiate Nursing Education, One Dupont Circle NW, Suite 530, Washington DC 20036 (Tel: 202 887-6791).

Preparation

Students must take eight specific prerequisite courses to be eligible for admission to the Pre-Licensure concentration. The prerequisite courses may be completed at California State University, East Bay or by taking equivalent courses at another college or university. Students who will complete prerequisite courses by the end of Fall semester are eligible to apply for the nursing program with an admission the following Fall semester. Students who will complete prerequisite courses by the end of Spring semester are eligible to apply to the nursing program with an admission the following Spring semester. Students who plan to use transfer courses to satisfy prerequisite requirements must have equivalencies determined by an admissions counselor in the Department of Nursing.

Admission

The Board of Trustees has designated Nursing as an impacted program; therefore a special admission procedure has been instituted to assure that all students have an opportunity to be considered for admission to the Nursing major for Fall semester or Spring semester. General information on the program, admission criteria and application procedures may be obtained from the Department of Nursing. To be considered for admission to the nursing program, students must complete two application forms:

- The "CSU Application for Admission" and
- The "Nursing Supplemental Application"

Both applications must be filed in November for admission in the Fall semester of the following academic year and in August for admission in the Spring semester of the following academic year. Students must also take the "Test of Essential Academic Skills." To be eligible for admission, the student must have a minimum 3.00 GPA and a C or above (C- is not acceptable) in the eight prerequisite courses. The four science prerequisite courses calculated separately must also have a minimum of 3.00 GPA or above. Prerequisite courses are listed below.

Note: Licensed Vocational Nurses, Medical Corps members, other healthcare personnel, and others who have completed prior nursing coursework must seek advisement from the Department of Nursing prior to applying to the program.

Post-Licensure Concentration

The Post-Licensure concentration is open only to students who hold a California license as a Registered Nurse. This program builds on the previous education of the Associate Degree in Nursing to provide students with the theoretical perspectives, concepts and skills required for a Bachelor's Degree in Nursing.

The B.S. in Nursing degree with a Post-Licensure concentration requires 120 semester units, many of which are transferable from the student's Associate Degree nursing program. Units may also be earned through credit by examination, which is given for successful completion of the NCLEX-RN. The Nursing major with a Post-Licensure concentration includes nursing prerequisites, 14 units of core courses and electives, and an additional 23 semester units in the concentration, and can be completed in one year, (2 semesters and summer session).

Eligibility

To be eligible for the Post-Licensure concentration, a student must:

- Have an unencumbered, unrestricted California RN License by time of entry into the program.
- Be a graduate of an ADN program or Diploma Nursing program (within the last twelve months); or have six months or equivalent full-time nursing practice within the United States in the past two years.
- Meet all university admission requirements and nursing program deadlines.
- Meet minimum prerequisite GPA requirements. See website for details.

Admissions

General information on the program, admission criteria and application procedures may be obtained from the Department of Nursing. To be considered for admission, students must complete two application forms:

- The "CSU Application for Admission" and
- The "Nursing Supplemental Application"

Both applications must be filed approximately one year ahead of time. See Nursing website for details.

Concentration Plan of Study

A concentration plan of study for this degree can be found at the department website.

LVN to BSN Information

Students who have completed an LVN program and are licensed as an LVN in California are eligible to apply to the Pre-Licensure B.S. in Nursing Program. LVNs interested in the Pre-Licensure B.S. in Nursing should seek advisement from the Department of Nursing. Information for LVNs can be found on the department website.

Nursing Course Progression Policy

For information on the Nursing Course Progression Policy, please see the online Nursing Student Handbook on the Department of Nursing website. Enrolled Nursing Students are required to review the Nursing Student Handbook including the Nursing Course Progression Policy.

Degree Requirements Unit-Outline

- A baccalaureate of science degree requires a total of 120 units;
- The major requirements and pre-licensure concentration consists of 99* units;
- The major requirements and post-licensure concentration consists of 66* units;
- General Education (GE) & Graduation Requirements (GR) consists of 57 units;
- Free Electives consists of 0 units (*actual number of free elective units may depend on GE/GR units.*)

**Note: It may be possible to double-count units within the graduation requirements or that a course may satisfy both a graduation requirement and a major requirement. Students should contact their program and AACE advisors for information.*

Nursing Major Requirements (66-99 units)

Prerequisite Courses

The following lower-division courses, or their equivalents, are prerequisites (28 units) that are included in major totals for both the Pre-Licensure and Post-Licensure Nursing Concentrations.

Note: To be eligible for admission, students must separately submit a Nursing application by strict deadlines, only available on the Nursing program website. Students must have a minimum 3.00 GPA and a C or above (C- is not acceptable) in the eight required prerequisite courses. The four science prerequisite courses, calculated separately, must also have a minimum of 3.00 GPA or above.

- BIOL 230 - Introduction to Clinical Microbiology Units: 4 ; G.E./G.R. Area: B2, B3
- BIOL 270 - Human Anatomy & Physiology I Units: 4 ; G.E./G.R. Area: B2, B3
- BIOL 271 - Human Anatomy & Physiology II Units: 4
- CHEM 161 - Basic Chemistry for the Health Sciences Units: 4 ; G.E./G.R. Area: B1, B3
- COMM 100 - Public Speaking Units: 3 ; G.E./G.R. Area: A1
- OR COMM 104 - Interpersonal Communication Units: 3 ; G.E./G.R. Area: A1
- ENGL 102 - Accelerated College Writing Units: 3 ; G.E./G.R. Area: A2 OR another GE Area A2 course.
- PHIL 100 - Workshop in Critical Thinking Units: 3 ; G.E./G.R. Area: A3 OR other course in Critical Thinking.
- STAT 100 - Elements of Statistics and Probability Units: 3 ; G.E./G.R. Area: B4

Core Requirements

The following interdisciplinary core courses for 12 units are required for both Pre-Licensure and Post-Licensure concentrations. These courses may also satisfy certain University requirements for graduation. In addition to the B.S. Nursing major requirements, every student must complete the University requirements for graduation which can be found online and elsewhere in this catalog. Students are advised to consult with their general education and major advisors to confirm they have met all of the University and major requirements for graduation.

- HDEV 380 - Lifespan Human Development *Units: 3 ; G.E./G.R. Area: D4*
- HIST 477 - History and Trends in Nursing *Units: 3 ; G.E./G.R. Area: C4*
- PSYC 100 - General Psychology *Units: 3 ; G.E./G.R. Area: D1-3*

And one course from the list below:

- ANTH 100 - Introduction to Anthropology *Units: 3 ; G.E./G.R. Area: D1-3*
- ANTH 130 - Introduction to Cultural Anthropology *Units: 3 ; G.E./G.R. Area: D1-3*
- SOC 100 - Introduction to Sociology *Units: 3 ; G.E./G.R. Area: D1-3*

Elective Courses

Additionally a minimum of 2 units of NURS electives chosen from the following are required:

- NURS 301 - Nutrition and Medical Nutrition Therapy *Units: 3*
- NURS 302 - Success in Nursing *Units: 1*
- NURS 492 - Global Health Nursing *Units: 1*
- NURS 493 - Nursing Research in Global Health *Units: 1*
- NURS 494 - Essentials of Critical Care Nursing *Units: 2*
- NURS 495 - Palliative Care in the Community *Units: 2*
- NURS 496 - Introduction to Healthcare Informatics *Units: 1*
- NURS 497 - Current Issues in Professional Nursing *Units: 1*
- NURS 490 - Independent Study *Units: 1-4*

Concentrations

B.S. Nursing students may only apply to one (1) concentration to complete the major. *Note: Students who have an LVN license must take the Pre-Licensure concentration. Students seeking course credit for previous education or experience should contact an advisor in the Nursing Department Office.*

- Nursing, B.S.: Pre-Licensure Concentration (57 units)
- Nursing, B.S.: Post-Licensure Concentration (24 units)

Post-Licensure Concentration

The following 20 units of upper-division NURS prefix coursework are required to complete the Nursing, B.S. Post-Licensure concentration. The coursework is sequential and must be taken as scheduled in each semester. See the Nursing Roadmap on the department website for further information:

- NURS 316 - Clinical Pathophysiology *Units: 3*
- NURS 360 - Transition to Professional Nurse Role *Units: 4*
- NURS 361 - Health Promotion for Diverse Populations *Units: 3*
- NURS 363 - Health Assessment for Registered Nurses *Units: 1*
- NURS 415 - Transitions of Care *Units: 1*
- NURS 422 - Evidence-Based Practice and Nursing Research *Units: 2*
- NURS 423 - Leadership in Nursing *Units: 2*
- NURS 450 - Community Health Nursing *Units: 2 ; G.E./G.R. Area: Social Justice*
- NURS 451 - Community Health Nursing Practice *Units: 2*

Capstone Requirements

The following capstone project for 4 units is required. See the Nursing Roadmap on the department website for further information:

- NURS 499 - RN Capstone Project *Units: 4*

Other Undergraduate Degree Requirements

In addition to major requirements, every student must also complete the University's baccalaureate requirements for graduation, which are described in the Requirements, Exams & Testing chapter of this catalog.

Department Courses Listed by Course Type

Nursing Courses

Department of Nursing

Go to information for this department.

Courses

Nursing

- • NURS 301 - Nutrition and Medical Nutrition Therapy *Units: 3*
- • NURS 302 - Success in Nursing *Units: 1*
- • NURS 306 - Clinical Pathophysiology for the Associate Degree Nurse *Units: 4*
- • NURS 310 - Foundations of Professional Nursing *Units: 2*
- • NURS 311 - Nursing Interventions I *Units: 1*
- • NURS 312 - Health Assessment *Units: 2*
- • NURS 313 - Health Assessment Lab *Units: 1*
- • NURS 314 - Mental Health and Psychiatric Nursing *Units: 2*
- • NURS 315 - Mental Health and Psychiatric Nursing Practice *Units: 2*
- • NURS 316 - Clinical Pathophysiology *Units: 3*
- • NURS 317 - Community Engagement I *Units: 1*

- • NURS 320 - Nursing Care of Adults I *Units: 2*
- • NURS 321 - Nursing Interventions II *Units: 1*
- • NURS 322 - Aging in Health and Illness *Units: 2*
- • NURS 323 - Nursing Care of Adults I Practice *Units: 4*
- • NURS 326 - Pharmacology for Nursing Practice *Units: 2*
- • NURS 327 - Community Engagement II *Units: 1*
- • NURS 360 - Transition to Professional Nurse Role *Units: 4*
- • NURS 361 - Health Promotion for Diverse Populations *Units: 3*
- • NURS 363 - Health Assessment for Registered Nurses *Units: 1*
- • NURS 410 - Maternity Nursing *Units: 2*
- • NURS 411 - Maternal Newborn Nursing Practice *Units: 2*
- • NURS 412 - Pediatric Nursing *Units: 2*
- • NURS 413 - Pediatric Nursing Practice *Units: 2*
- • NURS 414 - Legal Issues in Nursing Practice *Units: 1*
- • NURS 415 - Transitions of Care *Units: 1*
- • NURS 417 - Community Engagement III *Units: 1*
- • NURS 420 - Nursing Care of Adults II *Units: 2*
- • NURS 421 - Nursing Care of Adults II Practice *Units: 4*
- • NURS 422 - Evidence-Based Practice and Nursing Research *Units: 2*
- • NURS 423 - Leadership in Nursing *Units: 2*
- • NURS 427 - Community Engagement IV *Units: 1*
- • NURS 450 - Community Health Nursing *Units: 2 ; G.E./G.R. Area: Social Justice*
- • NURS 451 - Community Health Nursing Practice *Units: 2*
- • NURS 452 - Preceptorship Synthesis *Units: 1*
- • NURS 453 - Preceptorship Practicum *Units: 4*
- • NURS 490 - Independent Study *Units: 1-4*
- • NURS 492 - Global Health Nursing *Units: 1*
- • NURS 493 - Nursing Research in Global Health *Units: 1*
- • NURS 494 - Essentials of Critical Care Nursing *Units: 2*
- • NURS 495 - Palliative Care in the Community *Units: 2*
- • NURS 496 - Introduction to Healthcare Informatics *Units: 1*
- • NURS 497 - Current Issues in Professional Nursing *Units: 1*
- • NURS 499 - RN Capstone Project *Units: 4*

Nursing: Graduate

- • NURS 601 - Theoretical Perspectives of Advanced Nursing Practice *Units: 3*
- • NURS 602 - Scientific Inquiry, Methods and Scholarship *Units: 3*
- • NURS 603 - Health Care Informatics *Units: 3*
- • NURS 604 - Epidemiology of Population Health and Social Disparities *Units: 3*
- • NURS 605 - Contemporary Issues in Healthcare Economic and Social Policy *Units: 3*
- • NURS 611 - Learner-Centered Theory and Methods in Nursing Education *Units: 2*
- • NURS 612 - Advanced Pathophysiology, Pharmacology & Health Assessment *Units: 4*
- • NURS 613 - Curriculum Design and Outcomes in Nursing *Units: 3*
- • NURS 614 - Instructional Strategies and Educational Technology in Nursing *Units: 3*
- • NURS 615 - Instructional Practicum: Teaching and Clinical Specialty Practices *Units: 3*
- • NURS 621 - Principles and Practices of Quality Patient Care *Units: 3*
- • NURS 622 - Leadership Influence and Change *Units: 3*
- • NURS 623 - Organizational Systems and Finance Management in Health Care *Units: 3*

- • NURS 624 - Human Resources Management for Health Care *Units: 3*
- • NURS 625 - Leadership Practicum: Nurse Administrative Role in Organization Setting *Units: 3*
- • NURS 693 - Master's Synthesis Project *Units: 3*

Nursing, B.S.: Pre-Licensure Concentration

Nursing, B.S. Program (120 units)

Program Description

The Department of Nursing offers an undergraduate program that leads to the Bachelor of Science degree with a major in Nursing. The program is designed to prepare a nurse generalist. Graduates of the program are prepared to work as professional nurses and/or pursue graduate education in nursing. There are two concentrations within the major: the Pre-Licensure concentration and the Post-Licensure concentration.

Program Learning Outcomes

Students graduating with a B.S. in Nursing will be able to:

- Synthesize knowledge from the natural sciences, behavioral sciences and the humanities with current nursing knowledge and theory to deliver nursing care;
- Provide safe, compassionate nursing care to diverse populations;
- Use critical thinking and communication skills to develop partnerships with clients and other healthcare professionals;
- Demonstrate responsibility and accountability for design, delivery, and evaluation of client care;
- Demonstrate professional behaviors in interactions with individuals, families, colleagues, and the community.

Career Opportunities

Graduates of the Nursing Pre-Licensure concentration will be qualified to take the National Council Licensure Examination - Registered Nurse (NCLEX-RN) and to apply for the California Public Health Nursing Certificate. Upon completion of the RN licensure process, the graduate will be able to work as a Registered Nurse with career opportunities in a wide range of settings including in hospitals, extended care facilities, public health organizations, schools and in other community settings. Graduates of the Post-Licensure concentration are also eligible to apply for the California Public Health Nursing Certificate and have career opportunities as a Bachelor's prepared RN as listed above.

Major Advising

Because requirements are subject to change, consult an adviser in your major department for clarification and interpretation of your major requirements. Additionally, students are encouraged to consult a G.E. advisor in the College of Science for clarification of general education and other University graduation requirements.

Pre-Licensure Concentration

The B.S. in Nursing degree requires a total of 120 units. The Nursing major with a Pre-Licensure concentration is comprised of nursing prerequisites, 14 units of core courses and electives, and 57 units in the concentration. The remainder of the units in the degree consist of general education and graduation requirements. Students complete two years of prerequisite courses before admission to the Pre-Licensure concentration, which consists of five semesters of nursing courses. Nursing courses have concurrent laboratories on campus and clinical practicum courses in local hospitals and community settings. Expenses for clinical courses include the purchase of uniforms, stethoscopes, malpractice insurance, personal health insurance, and other necessary personal supplies.

The Pre-Licensure concentration program is approved by the State of California Board of Registered Nursing (Tel: 916 322-3350) and both the Pre-Licensure and the Post-Licensure Concentration are accredited by the Commission on Collegiate Nursing Education, One Dupont Circle NW, Suite 530, Washington DC 20036 (Tel: 202 887-6791).

Preparation

Students must take eight specific prerequisite courses to be eligible for admission to the Pre-Licensure concentration. The prerequisite courses may be completed at California State University, East Bay or by taking equivalent courses at another college or university. Students who will complete prerequisite courses by the end of Fall semester are eligible to apply for the nursing program with an admission the following Fall semester. Students who will complete prerequisite courses by the end of Spring semester are eligible to apply to the nursing program with an admission the following Spring semester. Students who plan to use transfer courses to satisfy prerequisite requirements must have equivalencies determined by an admissions counselor in the Department of Nursing.

Admission

The Board of Trustees has designated Nursing as an impacted program; therefore a special admission procedure has been instituted to assure that all students have an opportunity to be considered for admission to the Nursing major for Fall semester or Spring semester. General information on the program, admission criteria and application procedures may be obtained from the Department of Nursing. To be considered for admission to the nursing program, students must complete two application forms:

- The "CSU Application for Admission" and
- The "Nursing Supplemental Application"

Both applications must be filed in November for admission in the Fall semester of the following academic year and in August for admission in the Spring semester of the following academic year. Students must also take the "Test of Essential Academic Skills." To be eligible for admission, the student must have a minimum 3.00 GPA and a C or above (C- is not acceptable) in the eight prerequisite courses. The four science prerequisite courses calculated separately must also have a minimum of 3.00 GPA or above. Prerequisite courses are listed below.

Note: Licensed Vocational Nurses, Medical Corps members, other healthcare personnel, and others who have completed prior nursing coursework must seek advisement from the Department of Nursing prior to applying to the program.

Post-Licensure Concentration

The Post-Licensure concentration is open only to students who hold a California license as a Registered Nurse. This program builds on the previous education of the Associate Degree in Nursing to provide students with the theoretical perspectives, concepts and skills required for a Bachelor's Degree in Nursing.

The B.S. in Nursing degree with a Post-Licensure concentration requires 120 semester units, many of which are transferable from the student's Associate Degree nursing program. Units may also be earned through credit by examination, which is given for successful completion of the NCLEX-RN. The Nursing major with a Post-Licensure concentration includes nursing prerequisites, 14 units of core courses and electives, and an additional 23 semester units in the concentration, and can be completed in one year, (2 semesters and summer session).

Eligibility

To be eligible for the Post-Licensure concentration, a student must:

- Have an unencumbered, unrestricted California RN License by time of entry into the program.
- Be a graduate of an ADN program or Diploma Nursing program (within the last twelve months); or have six months or equivalent full-time nursing practice within the United States in the past two years.
- Meet all university admission requirements and nursing program deadlines.
- Meet minimum prerequisite GPA requirements. See website for details.

Admissions

General information on the program, admission criteria and application procedures may be obtained from the Department of Nursing. To be considered for admission, students must complete two application forms:

- The "CSU Application for Admission" and
- The "Nursing Supplemental Application"

Both applications must be filed approximately one year ahead of time. See Nursing website for details.

Concentration Plan of Study

A concentration plan of study for this degree can be found at the department website.

LVN to BSN Information

Students who have completed an LVN program and are licensed as an LVN in California are eligible to apply to the Pre-Licensure B.S. in Nursing Program. LVNs interested in the Pre-Licensure B.S. in Nursing should seek advisement from the Department of Nursing. Information for LVNs can be found on the department website.

Nursing Course Progression Policy

For information on the Nursing Course Progression Policy, please see the online Nursing Student Handbook on the Department of Nursing website. Enrolled Nursing Students are required to review the Nursing Student Handbook including the Nursing Course Progression Policy.

Degree Requirements Unit-Outline

- A baccalaureate of science degree requires a total of 120 units:
- The major requirements and pre-licensure concentration consists of 99* units;
- The major requirements and post-licensure concentration consists of 66* units;

- General Education (GE) & Graduation Requirements (GR) consists of 57 units;
- Free Electives consists of 0 units (*actual number of free elective units may depend on GE/GR units.*)

**Note: It may be possible to double-count units within the graduation requirements or that a course may satisfy both a graduation requirement and a major requirement. Students should contact their program and AACCE advisors for information.*

Nursing Major Requirements (66-99 units)

Prerequisite Courses

The following lower-division courses, or their equivalents, are prerequisites (28 units) that are included in major totals for both the Pre-Licensure and Post-Licensure Nursing Concentrations.

Note: To be eligible for admission, students must separately submit a Nursing application by strict deadlines, only available on the Nursing program website. Students must have a minimum 3.00 GPA and a C or above (C- is not acceptable) in the eight required prerequisite courses. The four science prerequisite courses, calculated separately, must also have a minimum of 3.00 GPA or above.

- BIOL 230 - Introduction to Clinical Microbiology Units: 4 ; G.E./G.R. Area: B2, B3
- BIOL 270 - Human Anatomy & Physiology I Units: 4 ; G.E./G.R. Area: B2, B3
- BIOL 271 - Human Anatomy & Physiology II Units: 4
- CHEM 161 - Basic Chemistry for the Health Sciences Units: 4 ; G.E./G.R. Area: B1, B3
- COMM 100 - Public Speaking Units: 3 ; G.E./G.R. Area: A1
- OR COMM 104 - Interpersonal Communication Units: 3 ; G.E./G.R. Area: A1
- ENGL 102 - Accelerated College Writing Units: 3 ; G.E./G.R. Area: A2 OR another GE Area A2 course.
- PHIL 100 - Workshop in Critical Thinking Units: 3 ; G.E./G.R. Area: A3 OR other course in Critical Thinking.
- STAT 100 - Elements of Statistics and Probability Units: 3 ; G.E./G.R. Area: B4

Core Requirements

The following interdisciplinary core courses for 12 units are required for both Pre-Licensure and Post-Licensure concentrations. These courses may also satisfy certain University requirements for graduation. In addition to the B.S. Nursing major requirements, every student must complete the University requirements for graduation which can be found online and elsewhere in this catalog. Students are advised to consult with their general education and major advisors to confirm they have met all of the University and major requirements for graduation.

- HDEV 380 - Lifespan Human Development Units: 3 ; G.E./G.R. Area: D4
- HIST 477 - History and Trends in Nursing Units: 3 ; G.E./G.R. Area: C4
- PSYC 100 - General Psychology Units: 3 ; G.E./G.R. Area: D1-3

And one course from the list below:

- ANTH 100 - Introduction to Anthropology Units: 3 ; G.E./G.R. Area: D1-3
- ANTH 130 - Introduction to Cultural Anthropology Units: 3 ; G.E./G.R. Area: D1-3

- SOC 100 - Introduction to Sociology *Units: 3 ; G.E./G.R. Area: D1-3*

Elective Courses

Additionally a minimum of 2 units of NURS electives chosen from the following are required:

- NURS 301 - Nutrition and Medical Nutrition Therapy *Units: 3*
- NURS 302 - Success in Nursing *Units: 1*
- NURS 492 - Global Health Nursing *Units: 1*
- NURS 493 - Nursing Research in Global Health *Units: 1*
- NURS 494 - Essentials of Critical Care Nursing *Units: 2*
- NURS 495 - Palliative Care in the Community *Units: 2*
- NURS 496 - Introduction to Healthcare Informatics *Units: 1*
- NURS 497 - Current Issues in Professional Nursing *Units: 1*
- NURS 490 - Independent Study *Units: 1-4*

Concentrations

B.S. Nursing students may only apply to one (1) concentration to complete the major. *Note: Students who have an LVN license must take the Pre-Licensure concentration. Students seeking course credit for previous education or experience should contact an advisor in the Nursing Department Office.*

- Nursing, B.S.: Pre-Licensure Concentration (57 units)
- Nursing, B.S.: Post-Licensure Concentration (24 units)

Pre-Licensure Concentration

The following 57 units of upper division NURS prefix coursework is required to complete the Nursing, B.S. Pre-Licensure concentration. The coursework is sequential and must be taken as scheduled in each semester. See the Nursing Roadmap on the department website for further information.

- NURS 310 - Foundations of Professional Nursing *Units: 2*
- NURS 311 - Nursing Interventions I *Units: 1*
- NURS 312 - Health Assessment *Units: 2*
- NURS 313 - Health Assessment Lab *Units: 1*
- NURS 314 - Mental Health and Psychiatric Nursing *Units: 2*
- NURS 315 - Mental Health and Psychiatric Nursing Practice *Units: 2*
- NURS 316 - Clinical Pathophysiology *Units: 3*
- NURS 317 - Community Engagement I *Units: 1*
- NURS 320 - Nursing Care of Adults I *Units: 2*
- NURS 321 - Nursing Interventions II *Units: 1*
- NURS 322 - Aging in Health and Illness *Units: 2*
- NURS 323 - Nursing Care of Adults I Practice *Units: 4*
- NURS 326 - Pharmacology for Nursing Practice *Units: 2*
- NURS 327 - Community Engagement II *Units: 1*

- NURS 410 - Maternity Nursing *Units: 2*
- NURS 411 - Maternal Newborn Nursing Practice *Units: 2*
- NURS 412 - Pediatric Nursing *Units: 2*
- NURS 413 - Pediatric Nursing Practice *Units: 2*
- NURS 414 - Legal Issues in Nursing Practice *Units: 1*
- NURS 415 - Transitions of Care *Units: 1*
- NURS 417 - Community Engagement III *Units: 1*
- NURS 420 - Nursing Care of Adults II *Units: 2*
- NURS 421 - Nursing Care of Adults II Practice *Units: 4*
- NURS 422 - Evidence-Based Practice and Nursing Research *Units: 2*
- NURS 423 - Leadership in Nursing *Units: 2*
- NURS 427 - Community Engagement IV *Units: 1*
- NURS 450 - Community Health Nursing *Units: 2 ; G.E./G.R. Area: Social Justice*
- NURS 451 - Community Health Nursing Practice *Units: 2*
- NURS 452 - Preceptorship Synthesis *Units: 1*
- NURS 453 - Preceptorship Practicum *Units: 4*

Other Undergraduate Degree Requirements

In addition to major requirements, every student must also complete the University's baccalaureate requirements for graduation, which are described in the Requirements, Exams & Testing chapter of this catalog.

Department Courses Listed by Course Type

Nursing Courses

Department of Nursing

Go to information for this department.

Courses

Nursing

- • NURS 301 - Nutrition and Medical Nutrition Therapy *Units: 3*
- • NURS 302 - Success in Nursing *Units: 1*
- • NURS 306 - Clinical Pathophysiology for the Associate Degree Nurse *Units: 4*
- • NURS 310 - Foundations of Professional Nursing *Units: 2*
- • NURS 311 - Nursing Interventions I *Units: 1*
- • NURS 312 - Health Assessment *Units: 2*
- • NURS 313 - Health Assessment Lab *Units: 1*
- • NURS 314 - Mental Health and Psychiatric Nursing *Units: 2*
- • NURS 315 - Mental Health and Psychiatric Nursing Practice *Units: 2*
- • NURS 316 - Clinical Pathophysiology *Units: 3*

- • NURS 317 - Community Engagement I *Units: 1*
- • NURS 320 - Nursing Care of Adults I *Units: 2*
- • NURS 321 - Nursing Interventions II *Units: 1*
- • NURS 322 - Aging in Health and Illness *Units: 2*
- • NURS 323 - Nursing Care of Adults I Practice *Units: 4*
- • NURS 326 - Pharmacology for Nursing Practice *Units: 2*
- • NURS 327 - Community Engagement II *Units: 1*
- • NURS 360 - Transition to Professional Nurse Role *Units: 4*
- • NURS 361 - Health Promotion for Diverse Populations *Units: 3*
- • NURS 363 - Health Assessment for Registered Nurses *Units: 1*
- • NURS 410 - Maternity Nursing *Units: 2*
- • NURS 411 - Maternal Newborn Nursing Practice *Units: 2*
- • NURS 412 - Pediatric Nursing *Units: 2*
- • NURS 413 - Pediatric Nursing Practice *Units: 2*
- • NURS 414 - Legal Issues in Nursing Practice *Units: 1*
- • NURS 415 - Transitions of Care *Units: 1*
- • NURS 417 - Community Engagement III *Units: 1*
- • NURS 420 - Nursing Care of Adults II *Units: 2*
- • NURS 421 - Nursing Care of Adults II Practice *Units: 4*
- • NURS 422 - Evidence-Based Practice and Nursing Research *Units: 2*
- • NURS 423 - Leadership in Nursing *Units: 2*
- • NURS 427 - Community Engagement IV *Units: 1*
- • NURS 450 - Community Health Nursing *Units: 2 ; G.E./G.R. Area: Social Justice*
- • NURS 451 - Community Health Nursing Practice *Units: 2*
- • NURS 452 - Preceptorship Synthesis *Units: 1*
- • NURS 453 - Preceptorship Practicum *Units: 4*
- • NURS 490 - Independent Study *Units: 1-4*
- • NURS 492 - Global Health Nursing *Units: 1*
- • NURS 493 - Nursing Research in Global Health *Units: 1*
- • NURS 494 - Essentials of Critical Care Nursing *Units: 2*
- • NURS 495 - Palliative Care in the Community *Units: 2*
- • NURS 496 - Introduction to Healthcare Informatics *Units: 1*
- • NURS 497 - Current Issues in Professional Nursing *Units: 1*
- • NURS 499 - RN Capstone Project *Units: 4*

Nursing: Graduate

- • NURS 601 - Theoretical Perspectives of Advanced Nursing Practice *Units: 3*
- • NURS 602 - Scientific Inquiry, Methods and Scholarship *Units: 3*
- • NURS 603 - Health Care Informatics *Units: 3*
- • NURS 604 - Epidemiology of Population Health and Social Disparities *Units: 3*
- • NURS 605 - Contemporary Issues in Healthcare Economic and Social Policy *Units: 3*
- • NURS 611 - Learner-Centered Theory and Methods in Nursing Education *Units: 2*
- • NURS 612 - Advanced Pathophysiology, Pharmacology & Health Assessment *Units: 4*
- • NURS 613 - Curriculum Design and Outcomes in Nursing *Units: 3*
- • NURS 614 - Instructional Strategies and Educational Technology in Nursing *Units: 3*
- • NURS 615 - Instructional Practicum: Teaching and Clinical Specialty Practices *Units: 3*
- • NURS 621 - Principles and Practices of Quality Patient Care *Units: 3*
- • NURS 622 - Leadership Influence and Change *Units: 3*

- • NURS 623 - Organizational Systems and Finance Management in Health Care *Units: 3*
- • NURS 624 - Human Resources Management for Health Care *Units: 3*
- • NURS 625 - Leadership Practicum: Nurse Administrative Role in Organization Setting *Units: 3*
- • NURS 693 - Master's Synthesis Project *Units: 3*

Master

Nursing, M.S.: Nursing Education Concentration

Nursing, M.S. Program

Program Description

The CSUEB Master of Science in Nursing Program (MSN) seeks to prepare nurses from our diverse, multicultural community to be effective nurse educators, leaders and administrators in clinical, organizational, or academic settings. The curriculum builds and expands upon baccalaureate nursing practice and seeks to prepare nurses with broad knowledge and advanced skills needed for a higher level of nursing practice and leadership. The program allows for a seamless pathway to a practice or research doctoral education for those interested in a doctoral degree. The program provides graduate nursing education in an accessible and flexible delivery approach of online, hybrid and on-ground courses. The program is designed to be completed in 4 semesters.

The MSN Program provides two practice concentrations:

- Nursing Education
- Nursing Leadership and Administration.

Program Learning Outcomes:

Upon completion of the Master of Science in Nursing program, graduates will be able to:

- Integrate theoretical and scientific knowledge of ethical/legal principles, advanced nursing practice and clinical excellence in professional practice as well as role development in clinical, organizational and academic settings.
- Lead change to improve quality outcomes and demonstrate effective leadership in advanced practice roles in nursing our diverse, multicultural community.
- Critically analyze evidence in the advanced practice of nursing and in the planning, delivery and evaluation of quality care in clinical, organizational and academic settings.
- Integrate healthcare technologies to facilitate interprofessional collaboration that improves clinical practice, education and organizational management.
- Design culturally inclusive, ethical, and innovative nursing care practices and systems in clinical prevention and population care for individuals, families, and communities across the healthcare system.
- Develop and cultivate interprofessional partnerships that foster a culture of lifelong learning and professional development to advance excellence in nursing practice.

Career Opportunities

Graduates of the M.S. in Nursing program will be prepared to work in clinical, organizational, and academic work settings. Graduates of the Nursing Education concentration will be well equipped to work as clinical education leaders in practice settings or as educators in academic nursing programs. Graduates of the Leadership and Management concentration will be prepared for mid-level administration and leadership positions in clinical practice settings.

The workforce demands and employment opportunities are projected to be exceptionally strong for nurse educators and nurse administrators nationally as well as in California. As the workforce demands for Registered Nurses increases, the need for nurse educators with MSN degrees to serve as faculty and clinical instructors will increase. Expansion of the Registered Nurse workforce needs will require an increase in nurse administrators and leaders for supervision in the workplace. Labor reports predict a "much faster than average" growth rate for both nurse educators and healthcare manager positions.

Admission Criteria

The M.S. in Nursing degree program is open to applicants who have a baccalaureate degree in Nursing from an accredited institution and are licensed or eligible for licensure as a Registered Nurse in California. Admission will be granted based upon the Admission Committee's overall assessment of the student's qualifications and academic/career potential, using the following criteria:

- Cumulative undergraduate GPA of at least 3.0
- At least 1 year of RN experience preferred.
- Two letters recommendation (on letterhead), 1 academic and 1 professional indicating the applicant's potential for success in graduate education and a nursing leadership role.
- Goal Statement - A two page essay should be submitted to the Nursing Department indicating the applicant's career interests and goals, their purpose for seeking this advanced degree, and why they will be successful in this program.
- Interview - To be arranged following receipt of the application.
- All undergraduate/graduate transcripts must be sent to University Admissions.
- STAT 100 Elements of Statistics and Probability, or its equivalent, must be completed as a foundation course with a grade of "B" or better prior to enrolling in the MS of Nursing program.

All applicants must submit an online graduate admission application for the Master of Science Degree in Nursing Program at <http://www.calstate.edu/apply> along with a non-refundable application fee. In addition, applicants must also submit a resume, two letters of reference and the application essay directly to the Department of Nursing, Master of Science of Nursing Program, 25800 Carlos Bee Blvd., SF 502, Hayward, CA 94542-3040.

Please review the detailed application instructions on the Department's website at <http://www.csueastbay.edu/csci/departments/nursing/>

Major Requirements

The M.S. in Nursing program requires completion of 33 semester units consisting of required core courses, concentration specific courses, a practicum experience and the Masters Synthesis Project. Generally, all units must be taken at CSUEB. Transfer credits are rarely accepted in the MS in Nursing Program.

Students will complete a Masters Synthesis Project in their selected area of interest. This culminating project will address a significant nursing practice/education issue to make change and improve practice

demonstrating advanced professional practice, and comprehensive knowledge integration and mastery in Nursing Education or Nursing Leadership.

A cumulative grade point average of 3.0 must be maintained in all 33 semester units taken to satisfy the degree requirements. Students who fail to maintain progress by falling below a 3.0 GPA in their graduate courses for two consecutive semesters will be academically disqualified from the university. The program mandates that the degree must be completed within four years.

Students accumulating more than six units of work graded "I" may not register for courses applicable to the degree until the "I" grades are removed.

Cause for Dismissal from Program

Students may be dismissed from the program at any time "for cause." "For cause" includes, but is not limited to, poor academic or fieldwork performance or academic dishonesty, as well as behavior that is destructive to students or faculty, and/or interferes with the educational environment, and/or represents a threat to potential clients. "For cause" also includes student behaviors that are inconsistent with the legal, ethical, and/or personal responsibilities of professional social workers.

Nursing Degree Requirements (32-33 units)

Core Requirements

The following 18 units of core coursework is required:

- NURS 601 - Theoretical Perspectives of Advanced Nursing Practice *Units: 3*
- NURS 602 - Scientific Inquiry, Methods and Scholarship *Units: 3*
- NURS 603 - Health Care Informatics *Units: 3*
- NURS 604 - Epidemiology of Population Health and Social Disparities *Units: 3*
- NURS 605 - Contemporary Issues in Healthcare Economic and Social Policy *Units: 3*
- NURS 693 - Master's Synthesis Project *Units: 3*

Concentrations

Students must choose one (1) of the following concentrations to complete their major degree:

- Nursing, M.S.: Nursing Education Concentration
- Nursing, M.S.: Nursing Leadership and Administration Concentration

Nursing, M.S.: Nursing Education Concentration

The Nursing Education concentration is designed to prepare graduates as nursing educators for academic faculty or clinical educator roles. The curriculum includes five core courses in advanced nursing knowledge, knowledge synthesis, population health, health informatics, and healthcare policy. In addition to the core curriculum, the nursing education concentration includes five courses in theories of teaching learning, curriculum design and development, instructional teaching methodologies and technologies, and education needs assessment and evaluation. As nursing educators must be proficient in

nursing practice, the nursing education concentration builds on baccalaureate knowledge with graduate level course work in health assessment, physiology/pathophysiology, and pharmacology to enhance the nurse educator's expertise in nursing knowledge and skills. Masters students enrolled in the Nursing Education concentration will have the opportunity to build expertise in a practice area and integrate this knowledge of nursing into practice in the required teaching practicum course.

Students will complete a Masters Synthesis Project in their selected area of interest. This culminating project will address a significant nursing practice/education issue to make change and improve practice demonstrating advanced professional practice, and comprehensive knowledge integration and mastery in the concentration of Nursing Education.

Requirements

The following 14 units of Nursing coursework is required for the concentration:

- NURS 611 - Learner-Centered Theory and Methods in Nursing Education *Units: 2*
- NURS 612 - Advanced Pathophysiology, Pharmacology & Health Assessment *Units: 4*
- NURS 613 - Curriculum Design and Outcomes in Nursing *Units: 3*
- NURS 614 - Instructional Strategies and Educational Technology in Nursing *Units: 3*
- NURS 615 - Instructional Practicum: Teaching and Clinical Specialty Practices *Units: 3*

Other Graduate & Post-Baccalaureate Degree Requirements

In addition to departmental requirements, every student must also satisfy the University requirements for graduation as described throughout this catalog. These include the 70% unit residence requirement; the five-year rule on currency of subject matter; the minimum number of units in 600-level courses; the "C" minimum grade for each graduate course; the 3.00 cumulative grade point average; and the University Writing Skills Requirement.

Note: For information on meeting the University Writing Skills Requirement, see the Testing Office website at www.csueastbay.edu/testing or call (510) 885-3661.

Department Courses Listed by Course Type

Nursing Courses

Department of Nursing

Go to information for this department.

Courses

Nursing

- • NURS 301 - Nutrition and Medical Nutrition Therapy *Units: 3*

- • NURS 302 - Success in Nursing *Units: 1*
- • NURS 306 - Clinical Pathophysiology for the Associate Degree Nurse *Units: 4*
- • NURS 310 - Foundations of Professional Nursing *Units: 2*
- • NURS 311 - Nursing Interventions I *Units: 1*
- • NURS 312 - Health Assessment *Units: 2*
- • NURS 313 - Health Assessment Lab *Units: 1*
- • NURS 314 - Mental Health and Psychiatric Nursing *Units: 2*
- • NURS 315 - Mental Health and Psychiatric Nursing Practice *Units: 2*
- • NURS 316 - Clinical Pathophysiology *Units: 3*
- • NURS 317 - Community Engagement I *Units: 1*
- • NURS 320 - Nursing Care of Adults I *Units: 2*
- • NURS 321 - Nursing Interventions II *Units: 1*
- • NURS 322 - Aging in Health and Illness *Units: 2*
- • NURS 323 - Nursing Care of Adults I Practice *Units: 4*
- • NURS 326 - Pharmacology for Nursing Practice *Units: 2*
- • NURS 327 - Community Engagement II *Units: 1*
- • NURS 360 - Transition to Professional Nurse Role *Units: 4*
- • NURS 361 - Health Promotion for Diverse Populations *Units: 3*
- • NURS 363 - Health Assessment for Registered Nurses *Units: 1*
- • NURS 410 - Maternity Nursing *Units: 2*
- • NURS 411 - Maternal Newborn Nursing Practice *Units: 2*
- • NURS 412 - Pediatric Nursing *Units: 2*
- • NURS 413 - Pediatric Nursing Practice *Units: 2*
- • NURS 414 - Legal Issues in Nursing Practice *Units: 1*
- • NURS 415 - Transitions of Care *Units: 1*
- • NURS 417 - Community Engagement III *Units: 1*
- • NURS 420 - Nursing Care of Adults II *Units: 2*
- • NURS 421 - Nursing Care of Adults II Practice *Units: 4*
- • NURS 422 - Evidence-Based Practice and Nursing Research *Units: 2*
- • NURS 423 - Leadership in Nursing *Units: 2*
- • NURS 427 - Community Engagement IV *Units: 1*
- • NURS 450 - Community Health Nursing *Units: 2 ; G.E./G.R. Area: Social Justice*
- • NURS 451 - Community Health Nursing Practice *Units: 2*
- • NURS 452 - Preceptorship Synthesis *Units: 1*
- • NURS 453 - Preceptorship Practicum *Units: 4*
- • NURS 490 - Independent Study *Units: 1-4*
- • NURS 492 - Global Health Nursing *Units: 1*
- • NURS 493 - Nursing Research in Global Health *Units: 1*
- • NURS 494 - Essentials of Critical Care Nursing *Units: 2*
- • NURS 495 - Palliative Care in the Community *Units: 2*
- • NURS 496 - Introduction to Healthcare Informatics *Units: 1*
- • NURS 497 - Current Issues in Professional Nursing *Units: 1*
- • NURS 499 - RN Capstone Project *Units: 4*

Nursing: Graduate

- • NURS 601 - Theoretical Perspectives of Advanced Nursing Practice *Units: 3*
- • NURS 602 - Scientific Inquiry, Methods and Scholarship *Units: 3*
- • NURS 603 - Health Care Informatics *Units: 3*

- • NURS 604 - Epidemiology of Population Health and Social Disparities *Units: 3*
- • NURS 605 - Contemporary Issues in Healthcare Economic and Social Policy *Units: 3*
- • NURS 611 - Learner-Centered Theory and Methods in Nursing Education *Units: 2*
- • NURS 612 - Advanced Pathophysiology, Pharmacology & Health Assessment *Units: 4*
- • NURS 613 - Curriculum Design and Outcomes in Nursing *Units: 3*
- • NURS 614 - Instructional Strategies and Educational Technology in Nursing *Units: 3*
- • NURS 615 - Instructional Practicum: Teaching and Clinical Specialty Practices *Units: 3*
- • NURS 621 - Principles and Practices of Quality Patient Care *Units: 3*
- • NURS 622 - Leadership Influence and Change *Units: 3*
- • NURS 623 - Organizational Systems and Finance Management in Health Care *Units: 3*
- • NURS 624 - Human Resources Management for Health Care *Units: 3*
- • NURS 625 - Leadership Practicum: Nurse Administrative Role in Organization Setting *Units: 3*
- • NURS 693 - Master's Synthesis Project *Units: 3*

Nursing, M.S.: Nursing Leadership and Administration Concentration

Nursing, M.S. Program

Program Description

The CSUEB Master of Science in Nursing Program (MSN) seeks to prepare nurses from our diverse, multicultural community to be effective nurse educators, leaders and administrators in clinical, organizational, or academic settings. The curriculum builds and expands upon baccalaureate nursing practice and seeks to prepare nurses with broad knowledge and advanced skills needed for a higher level of nursing practice and leadership. The program allows for a seamless pathway to a practice or research doctoral education for those interested in a doctoral degree. The program provides graduate nursing education in an accessible and flexible delivery approach of online, hybrid and on-ground courses. The program is designed to be completed in 4 semesters.

The MSN Program provides two practice concentrations:

- Nursing Education
- Nursing Leadership and Administration.

Program Learning Outcomes:

Upon completion of the Master of Science in Nursing program, graduates will be able to:

- Integrate theoretical and scientific knowledge of ethical/legal principles, advanced nursing practice and clinical excellence in professional practice as well as role development in clinical, organizational and academic settings.
- Lead change to improve quality outcomes and demonstrate effective leadership in advanced practice roles in nursing our diverse, multicultural community.
- Critically analyze evidence in the advanced practice of nursing and in the planning, delivery and evaluation of quality care in clinical, organizational and academic settings.
- Integrate healthcare technologies to facilitate interprofessional collaboration that improves clinical practice, education and organizational management.

- Design culturally inclusive, ethical, and innovative nursing care practices and systems in clinical prevention and population care for individuals, families, and communities across the healthcare system.
- Develop and cultivate interprofessional partnerships that foster a culture of lifelong learning and professional development to advance excellence in nursing practice.

Career Opportunities

Graduates of the M.S. in Nursing program will be prepared to work in clinical, organizational, and academic work settings. Graduates of the Nursing Education concentration will be well equipped to work as clinical education leaders in practice settings or as educators in academic nursing programs. Graduates of the Leadership and Management concentration will be prepared for mid-level administration and leadership positions in clinical practice settings.

The workforce demands and employment opportunities are projected to be exceptionally strong for nurse educators and nurse administrators nationally as well as in California. As the workforce demands for Registered Nurses increases, the need for nurse educators with MSN degrees to serve as faculty and clinical instructors will increase. Expansion of the Registered Nurse workforce needs will require an increase in nurse administrators and leaders for supervision in the workplace. Labor reports predict a "much faster than average" growth rate for both nurse educators and healthcare manager positions.

Admission Criteria

The M.S. in Nursing degree program is open to applicants who have a baccalaureate degree in Nursing from an accredited institution and are licensed or eligible for licensure as a Registered Nurse in California. Admission will be granted based upon the Admission Committee's overall assessment of the student's qualifications and academic/career potential, using the following criteria:

- Cumulative undergraduate GPA of at least 3.0
- At least 1 year of RN experience preferred.
- Two letters recommendation (on letterhead), 1 academic and 1 professional indicating the applicant's potential for success in graduate education and a nursing leadership role.
- Goal Statement - A two page essay should be submitted to the Nursing Department indicating the applicant's career interests and goals, their purpose for seeking this advanced degree, and why they will be successful in this program.
- Interview - To be arranged following receipt of the application.
- All undergraduate/graduate transcripts must be sent to University Admissions.
- STAT 100 Elements of Statistics and Probability, or its equivalent, must be completed as a foundation course with a grade of "B" or better prior to enrolling in the MS of Nursing program.

All applicants must submit an online graduate admission application for the Master of Science Degree in Nursing Program at <http://www.calstate.edu/apply> along with a non-refundable application fee. In addition, applicants must also submit a resume, two letters of reference and the application essay directly to the Department of Nursing, Master of Science of Nursing Program, 25800 Carlos Bee Blvd., SF 502, Hayward, CA 94542-3040.

Please review the detailed application instructions on the Department's website at <http://www.csueastbay.edu/csci/departments/nursing/>

Major Requirements

The M.S. in Nursing program requires completion of 33 semester units consisting of required core courses, concentration specific courses, a practicum experience and the Masters Synthesis Project. Generally, all units must be taken at CSUEB. Transfer credits are rarely accepted in the MS in Nursing Program.

Students will complete a Masters Synthesis Project in their selected area of interest. This culminating project will address a significant nursing practice/education issue to make change and improve practice demonstrating advanced professional practice, and comprehensive knowledge integration and mastery in Nursing Education or Nursing Leadership.

A cumulative grade point average of 3.0 must be maintained in all 33 semester units taken to satisfy the degree requirements. Students who fail to maintain progress by falling below a 3.0 GPA in their graduate courses for two consecutive semesters will be academically disqualified from the university. The program mandates that the degree must be completed within four years.

Students accumulating more than six units of work graded "I" may not register for courses applicable to the degree until the "I" grades are removed.

Cause for Dismissal from Program

Students may be dismissed from the program at any time "for cause." "For cause" includes, but is not limited to, poor academic or fieldwork performance or academic dishonesty, as well as behavior that is destructive to students or faculty, and/or interferes with the educational environment, and/or represents a threat to potential clients. "For cause" also includes student behaviors that are inconsistent with the legal, ethical, and/or personal responsibilities of professional social workers.

Nursing Degree Requirements (32-33 units)

Core Requirements

The following 18 units of core coursework is required:

- NURS 601 - Theoretical Perspectives of Advanced Nursing Practice *Units: 3*
- NURS 602 - Scientific Inquiry, Methods and Scholarship *Units: 3*
- NURS 603 - Health Care Informatics *Units: 3*
- NURS 604 - Epidemiology of Population Health and Social Disparities *Units: 3*
- NURS 605 - Contemporary Issues in Healthcare Economic and Social Policy *Units: 3*
- NURS 693 - Master's Synthesis Project *Units: 3*

Concentrations

Students must choose one (1) of the following concentrations to complete their major degree:

- Nursing, M.S.: Nursing Education Concentration
- Nursing, M.S.: Nursing Leadership and Administration Concentration

Nursing Leadership and Administration Concentration

The Nursing Leadership and Administration concentration is designed to prepare aspiring nurse leaders for advancement to leadership and management roles in clinical practice and healthcare organizational settings. The curriculum includes five core courses in advanced nursing knowledge, knowledge synthesis, population health, health informatics, and healthcare policy. In addition to the core curriculum, the nursing leadership and administration concentration includes five courses with coursework including content such as organizational systems, financial management, human resource management, leadership role development, change management, and quality improvement for healthcare outcomes. Masters students enrolled in the Nursing Leadership and Administration concentration will have opportunity to integrate this knowledge of nursing leadership and administration into practice in the required Leadership Practicum in a nurse administrative role in an organizational setting.

Requirements

The following 15 units of Nursing coursework is required for the concentration:

- NURS 621 - Principles and Practices of Quality Patient Care *Units: 3*
- NURS 622 - Leadership Influence and Change *Units: 3*
- NURS 623 - Organizational Systems and Finance Management in Health Care *Units: 3*
- NURS 624 - Human Resources Management for Health Care *Units: 3*
- NURS 625 - Leadership Practicum: Nurse Administrative Role in Organization Setting *Units: 3*

Other Graduate & Post-Baccalaureate Degree Requirements

In addition to departmental requirements, every student must also satisfy the University requirements for graduation as described throughout this catalog. These include the 70% unit residence requirement; the five-year rule on currency of subject matter; the minimum number of units in 600-level courses; the "C" minimum grade for each graduate course; the 3.00 cumulative grade point average; and the University Writing Skills Requirement.

Note: For information on meeting the University Writing Skills Requirement, see the Testing Office website at www.csueastbay.edu/testing or call (510) 885-3661.

Department Courses Listed by Course Type

Nursing Courses

Department of Nursing

Go to information for this department.

Courses

Nursing

- • NURS 301 - Nutrition and Medical Nutrition Therapy *Units: 3*
- • NURS 302 - Success in Nursing *Units: 1*

- • NURS 306 - Clinical Pathophysiology for the Associate Degree Nurse *Units: 4*
- • NURS 310 - Foundations of Professional Nursing *Units: 2*
- • NURS 311 - Nursing Interventions I *Units: 1*
- • NURS 312 - Health Assessment *Units: 2*
- • NURS 313 - Health Assessment Lab *Units: 1*
- • NURS 314 - Mental Health and Psychiatric Nursing *Units: 2*
- • NURS 315 - Mental Health and Psychiatric Nursing Practice *Units: 2*
- • NURS 316 - Clinical Pathophysiology *Units: 3*
- • NURS 317 - Community Engagement I *Units: 1*
- • NURS 320 - Nursing Care of Adults I *Units: 2*
- • NURS 321 - Nursing Interventions II *Units: 1*
- • NURS 322 - Aging in Health and Illness *Units: 2*
- • NURS 323 - Nursing Care of Adults I Practice *Units: 4*
- • NURS 326 - Pharmacology for Nursing Practice *Units: 2*
- • NURS 327 - Community Engagement II *Units: 1*
- • NURS 360 - Transition to Professional Nurse Role *Units: 4*
- • NURS 361 - Health Promotion for Diverse Populations *Units: 3*
- • NURS 363 - Health Assessment for Registered Nurses *Units: 1*
- • NURS 410 - Maternity Nursing *Units: 2*
- • NURS 411 - Maternal Newborn Nursing Practice *Units: 2*
- • NURS 412 - Pediatric Nursing *Units: 2*
- • NURS 413 - Pediatric Nursing Practice *Units: 2*
- • NURS 414 - Legal Issues in Nursing Practice *Units: 1*
- • NURS 415 - Transitions of Care *Units: 1*
- • NURS 417 - Community Engagement III *Units: 1*
- • NURS 420 - Nursing Care of Adults II *Units: 2*
- • NURS 421 - Nursing Care of Adults II Practice *Units: 4*
- • NURS 422 - Evidence-Based Practice and Nursing Research *Units: 2*
- • NURS 423 - Leadership in Nursing *Units: 2*
- • NURS 427 - Community Engagement IV *Units: 1*
- • NURS 450 - Community Health Nursing *Units: 2 ; G.E./G.R. Area: Social Justice*
- • NURS 451 - Community Health Nursing Practice *Units: 2*
- • NURS 452 - Preceptorship Synthesis *Units: 1*
- • NURS 453 - Preceptorship Practicum *Units: 4*
- • NURS 490 - Independent Study *Units: 1-4*
- • NURS 492 - Global Health Nursing *Units: 1*
- • NURS 493 - Nursing Research in Global Health *Units: 1*
- • NURS 494 - Essentials of Critical Care Nursing *Units: 2*
- • NURS 495 - Palliative Care in the Community *Units: 2*
- • NURS 496 - Introduction to Healthcare Informatics *Units: 1*
- • NURS 497 - Current Issues in Professional Nursing *Units: 1*
- • NURS 499 - RN Capstone Project *Units: 4*

Nursing: Graduate

- • NURS 601 - Theoretical Perspectives of Advanced Nursing Practice *Units: 3*
- • NURS 602 - Scientific Inquiry, Methods and Scholarship *Units: 3*
- • NURS 603 - Health Care Informatics *Units: 3*
- • NURS 604 - Epidemiology of Population Health and Social Disparities *Units: 3*

- • NURS 605 - Contemporary Issues in Healthcare Economic and Social Policy *Units: 3*
- • NURS 611 - Learner-Centered Theory and Methods in Nursing Education *Units: 2*
- • NURS 612 - Advanced Pathophysiology, Pharmacology & Health Assessment *Units: 4*
- • NURS 613 - Curriculum Design and Outcomes in Nursing *Units: 3*
- • NURS 614 - Instructional Strategies and Educational Technology in Nursing *Units: 3*
- • NURS 615 - Instructional Practicum: Teaching and Clinical Specialty Practices *Units: 3*
- • NURS 621 - Principles and Practices of Quality Patient Care *Units: 3*
- • NURS 622 - Leadership Influence and Change *Units: 3*
- • NURS 623 - Organizational Systems and Finance Management in Health Care *Units: 3*
- • NURS 624 - Human Resources Management for Health Care *Units: 3*
- • NURS 625 - Leadership Practicum: Nurse Administrative Role in Organization Setting *Units: 3*
- • NURS 693 - Master's Synthesis Project *Units: 3*

Department of Philosophy and Religious Studies

The Department Office is located on the 4th Floor of the Student and Faculty Services building, Room 442

Office Hours: 8:00 a.m. - 5:00 p.m., Monday through Friday

Phone: (510) 885-3225

Faculty

Professors

Jennifer L. Eagan, Ph.D. Duquesne University

Christopher M. Moreman (Chair), Ph.D. University of Wales, Lampeter

Associate Professor

Barbara Hall, Ph.D. University of Arizona, J.D. DePaul University Law School

Assistant Professor

Craig Derksen, Ph.D. University of Maryland

Department Statement

The Philosophy and Religious Studies Department at California State University, East Bay seeks to promote the exploration of enduring human concerns - concerns, for example, about the nature of knowledge, ethics, truth, and God. In addition to emphasizing classical philosophy, the department encourages students to think critically about contemporary debates, particularly in the areas of law, human rights and social justice; science, technology, and values; and religion. We strive to instill in our students lifelong habits of questioning, of exploring views contrary to their own, and of engaging in reasoned and honest dialogue. By our focus on analysis, comprehension and communication, we aim to develop qualities that are essential to personal fulfillment, civic responsibility, and career success.

About the Department

Use our university website link to learn more about what the Philosophy and Religious Studies Department has to offer.

- Cal State East Bay Philosophy Society
- Reflections
- Alumni Profiles
- Faculty Profiles
- Social Media Links
- And more...

Bachelor

Philosophy, B.A.: Philosophy Concentration

Philosophy, B.A. Program (120 units)

Program Description

The Department of Philosophy at Cal State East Bay seeks to promote the exploration of enduring human concerns - concerns, for example, about the nature of knowledge, ethics, truth, and God. In addition to emphasizing classical philosophy, the department encourages students to think critically about contemporary debates, particularly in the areas of law, human rights, and social justice; science, technology, and values; and religion. The department's faculty strive to instill in students lifelong habits of questioning, of exploring views contrary to their own, and of engaging in reasoned and honest dialogue. By their focus on analysis, comprehension and communication, they aim to develop qualities that are essential to personal fulfillment, civic responsibility, and career success.

Many different kinds of students choose the major in philosophy. Some intend to do graduate work in philosophy, often with the intention of becoming philosophy professors who research and teach in philosophy. Others take philosophy as a preparation for another professional area. Traditionally, for example, philosophy has been one of the chief roads to professional law schools. Philosophy also serves as a good general liberal arts education, since many of the long-established university disciplines are founded on philosophical principles: political science, sociology, education, aesthetics, physics, and other subjects. Finally, many students major in philosophy in order to prepare for careers that require clarity of thought, analytical ability, good writing skills, and the ability to present a reasoned argument.

Program Learning Outcomes

Students graduating with a B.A. in Philosophy from Cal State East Bay will able to:

- write clear, academically rigorous, argumentative essays.
- read complex texts, create original arguments, analyze the arguments of others, and express these criticisms orally and in writing.
- demonstrate knowledge of philosophical and/or religious traditions, their relevant concepts, theories, methods, and historical contexts.

- develop their capacities for ethical decision making, Socratic humility, openness to the ideas of others, reflective self-awareness, and a life-long curiosity about big questions.
- cultivate an appreciation for a diversity of ideas and values across time and for human difference in areas such as: religion, culture, ethnicity, race, class, sexuality, and gender.

Career Opportunities

Analyst • Business Executive • Clergy • Consultant • Critic • Editor • Foreign Service Officer • Journalist • Lawyer • Philosopher • Policy Analyst • Primary/Secondary School Teacher • Professor • Public Administrator • Theologian • Writer

Degree Requirements Unit-Outline

- A baccalaureate of arts degree requires a total of 120 units;
 - The major requirements consists of 45 units;
 - General Education (GE) & Graduation Requirements (GR) consists of 57 units;
 - Free Electives may consist of 18 units (*actual number of free elective units may depend on GE/GR units*).
- Note: It may be possible to double-count units within the graduation requirements or that a course may satisfy both a graduation requirement and a major requirement. Students should contact their program and AACE advisors for information.*

Philosophy Major Requirements (45 units)

Core Coursework

Students must take the following six (6) courses for 18 units:

- PHIL 300 - Reasoning and Writing for Philosophy Majors *Units: 3*
- PHIL 310 - Ethics *Units: 3 ; G.E./G.R. Area: C4; Social Justice*
- PHIL 330 - Epistemology: Knowing and Not Knowing *Units: 3 ; G.E./G.R. Area: C4*
- PHIL 331 - Metaphysics: Being and Not Being *Units: 3 ; G.E./G.R. Area: C4*
- PHIL 361 - Ancient and Medieval Philosophy *Units: 3 ; G.E./G.R. Area: C4*
- PHIL 362 - Modern Philosophy *Units: 3 ; G.E./G.R. Area: C4*

In addition, students must choose one (1) course for 3 units from the following:

- PHIL 340 - Philosophy of Religion *Units: 3 ; G.E./G.R. Area: C4*
- PHIL 341 - Abrahamic Religions *Units: 3 ; G.E./G.R. Area: C4*
- PHIL 342 - Religions of Asia *Units: 3 ; G.E./G.R. Area: C4*

Concentrations

Students must choose one (1) concentration for 21 units below as part of the major requirements:

- Philosophy, B.A.: Philosophy Concentration
- Philosophy, B.A.: Religious Studies Concentration

Capstone Requirement

Students must complete the following capstone experience for 3 units to complete the major:

- PHIL 499 - Senior Seminar *Units: 3*

Philosophy Concentration

Students must take one (1) of the following courses for 3 units:

- PHIL 353 - Human Rights in the U.S. *Units: 3 ; G.E./G.R. Area: C4; Diversity*
- PHIL 354 - Global Human Rights and Social Justice *Units: 3 ; G.E./G.R. Area: C4; Social Justice*
- PHIL 355 - Race and Justice *Units: 3 ; G.E./G.R. Area: C4; Diversity*
- PHIL 373 - African-American Philosophical Perspectives *Units: 3 ; G.E./G.R. Area: C4; Diversity*
- PHIL 375 - Feminist Philosophy *Units: 3 ; G.E./G.R. Area: C4; Social Justice*

• Plus, students must choose an additional 18 units of any other PHIL courses to meet the major requirements. No more than 3 units of lower-division may be applied towards the major.

Other Undergraduate Degree Requirements

In addition to major requirements, every student must also complete the University's baccalaureate requirements for graduation, which are described in the Requirements, Exams & Testing chapter of this catalog.

Department Courses Listed by Course Type

Philosophy and Religious Studies Courses

Department of Philosophy and Religious Studies

Go to information for this department.

Courses

Philosophy

- • PHIL 100 - Workshop in Critical Thinking *Units: 3 ; G.E./G.R. Area: A3*
- • PHIL 110 - Freshman Topics in Philosophy and the Arts *Units: 3 ; G.E./G.R. Area: C1*
- • PHIL 120 - Freshman Topics in Philosophy *Units: 3 ; G.E./G.R. Area: C2*
- • PHIL 130 - Freshman Topics in Philosophy, Religion, and Social Science *Units: 3 ; G.E./G.R. Area: D1-3*
- • PHIL 201 - Introduction to Philosophy *Units: 3 ; G.E./G.R. Area: C2*
- • PHIL 211 - Introduction to Ethics *Units: 3 ; G.E./G.R. Area: C2*
- • PHIL 241 - Introduction to Judaism, Christianity, and Islam *Units: 3 ; G.E./G.R. Area: C2*
- • PHIL 242 - Introduction to Asian Religion *Units: 3 ; G.E./G.R. Area: C2*

- • PHIL 300 - Reasoning and Writing for Philosophy Majors *Units: 3*
- • PHIL 301 - Modern Logic *Units: 3 ; G.E./G.R. Area: C4*
- • PHIL 310 - Ethics *Units: 3 ; G.E./G.R. Area: C4; Social Justice*
- • PHIL 311 - Environmental Ethics *Units: 3 ; G.E./G.R. Area: C4; Sustainability*
- • PHIL 312 - Bioethics *Units: 3 ; G.E./G.R. Area: C4; Social Justice*
- • PHIL 313 - Philosophy of Business and Professional Ethics *Units: 3 ; G.E./G.R. Area: C4*
- • PHIL 320 - Philosophy of Art *Units: 3 ; G.E./G.R. Area: C4; Diversity*
- • PHIL 321 - Philosophy and Science Fiction *Units: 3 ; G.E./G.R. Area: C4; Social Justice*
- • PHIL 324 - Philosophy and Sex *Units: 3 ; G.E./G.R. Area: C4; Diversity*
- • PHIL 330 - Epistemology: Knowing and Not Knowing *Units: 3 ; G.E./G.R. Area: C4*
- • PHIL 331 - Metaphysics: Being and Not Being *Units: 3 ; G.E./G.R. Area: C4*
- • PHIL 332 - Philosophy of Social Science *Units: 3 ; G.E./G.R. Area: C4*
- • PHIL 333 - Philosophy of Language *Units: 3 ; G.E./G.R. Area: C4*
- • PHIL 335 - Philosophy of Science *Units: 3 ; G.E./G.R. Area: C4*
- • PHIL 336 - Philosophy of Cognition and Artificial Intelligence *Units: 3 ; G.E./G.R. Area: C4*
- • PHIL 337 - Science and Religion *Units: 3 ; G.E./G.R. Area: C4*
- • PHIL 338 - Atheism, Agnosticism, and Theism *Units: 3 ; G.E./G.R. Area: C4*
- • PHIL 340 - Philosophy of Religion *Units: 3 ; G.E./G.R. Area: C4*
- • PHIL 341 - Abrahamic Religions *Units: 3 ; G.E./G.R. Area: C4*
- • PHIL 342 - Religions of Asia *Units: 3 ; G.E./G.R. Area: C4*
- • PHIL 343 - Contemporary Religious Thinkers *Units: 3 ; G.E./G.R. Area: C4*
- • PHIL 344 - Mysticism *Units: 3 ; G.E./G.R. Area: C4*
- • PHIL 345 - Comparative Religion *Units: 3 ; G.E./G.R. Area: C4*
- • PHIL 346 - Cults and New Religious Movements *Units: 3 ; G.E./G.R. Area: C4; Diversity*
- • PHIL 347 - Religion, Monsters, and Horror *Units: 3 ; G.E./G.R. Area: C4*
- • PHIL 348 - Views of the Afterlife *Units: 3 ; G.E./G.R. Area: C4*
- • PHIL 349 - Africana Philosophy and Religions *Units: 3 ; G.E./G.R. Area: C4*
- • PHIL 351 - Social and Political Philosophy *Units: 3 ; G.E./G.R. Area: C4; Social Justice*
- • PHIL 353 - Human Rights in the U.S. *Units: 3 ; G.E./G.R. Area: C4; Diversity*
- • PHIL 354 - Global Human Rights and Social Justice *Units: 3 ; G.E./G.R. Area: C4; Social Justice*
- • PHIL 355 - Race and Justice *Units: 3 ; G.E./G.R. Area: C4; Diversity*
- • PHIL 361 - Ancient and Medieval Philosophy *Units: 3 ; G.E./G.R. Area: C4*
- • PHIL 362 - Modern Philosophy *Units: 3 ; G.E./G.R. Area: C4*
- • PHIL 365 - Existentialism *Units: 3 ; G.E./G.R. Area: C4*
- • PHIL 371 - Philosophy of Education *Units: 3 ; G.E./G.R. Area: C4*
- • PHIL 373 - African-American Philosophical Perspectives *Units: 3 ; G.E./G.R. Area: C4; Diversity*
- • PHIL 375 - Feminist Philosophy *Units: 3 ; G.E./G.R. Area: C4; Social Justice*
- • PHIL 377 - Philosophy of Law *Units: 3 ; G.E./G.R. Area: C4; Social Justice*
- • PHIL 378 - Evil *Units: 3 ; G.E./G.R. Area: C4*
- • PHIL 381 - Shamanism *Units: 3 ; G.E./G.R. Area: C4*
- • PHIL 490 - Independent Study *Units: 3*
- • PHIL 497 - Issues in Philosophy or Religion *Units: 3*
- • PHIL 499 - Senior Seminar *Units: 3*

Philosophy, B.A.: Religious Studies Concentration

Philosophy, B.A. Program (120 units)

Program Description

The Department of Philosophy at Cal State East Bay seeks to promote the exploration of enduring human concerns - concerns, for example, about the nature of knowledge, ethics, truth, and God. In addition to emphasizing classical philosophy, the department encourages students to think critically about contemporary debates, particularly in the areas of law, human rights, and social justice; science, technology, and values; and religion. The department's faculty strive to instill in students lifelong habits of questioning, of exploring views contrary to their own, and of engaging in reasoned and honest dialogue. By their focus on analysis, comprehension and communication, they aim to develop qualities that are essential to personal fulfillment, civic responsibility, and career success.

Many different kinds of students choose the major in philosophy. Some intend to do graduate work in philosophy, often with the intention of becoming philosophy professors who research and teach in philosophy. Others take philosophy as a preparation for another professional area. Traditionally, for example, philosophy has been one of the chief roads to professional law schools. Philosophy also serves as a good general liberal arts education, since many of the long-established university disciplines are founded on philosophical principles: political science, sociology, education, aesthetics, physics, and other subjects. Finally, many students major in philosophy in order to prepare for careers that require clarity of thought, analytical ability, good writing skills, and the ability to present a reasoned argument.

Program Learning Outcomes

Students graduating with a B.A. in Philosophy from Cal State East Bay will be able to:

- write clear, academically rigorous, argumentative essays.
- read complex texts, create original arguments, analyze the arguments of others, and express these criticisms orally and in writing.
- demonstrate knowledge of philosophical and/or religious traditions, their relevant concepts, theories, methods, and historical contexts.
- develop their capacities for ethical decision making, Socratic humility, openness to the ideas of others, reflective self-awareness, and a life-long curiosity about big questions.
- cultivate an appreciation for a diversity of ideas and values across time and for human difference in areas such as: religion, culture, ethnicity, race, class, sexuality, and gender.

Career Opportunities

Analyst • Business Executive • Clergy • Consultant • Critic • Editor • Foreign Service Officer • Journalist • Lawyer • Philosopher • Policy Analyst • Primary/Secondary School Teacher • Professor • Public Administrator • Theologian • Writer

Degree Requirements Unit-Outline

- A baccalaureate of arts degree requires a total of 120 units;
- The major requirements consists of 45 units;
- General Education (GE) & Graduation Requirements (GR) consists of 57 units;
- Free Electives may consist of 18 units (*actual number of free elective units may depend on GE/GR units*).

Note: It may be possible to double-count units within the graduation requirements or that a course may satisfy both a graduation requirement and a major requirement. Students should contact their program and AACE advisors for information.

Philosophy Major Requirements (45 units)

Core Coursework

Students must take the following six (6) courses for 18 units:

- PHIL 300 - Reasoning and Writing for Philosophy Majors *Units: 3*
- PHIL 310 - Ethics *Units: 3 ; G.E./G.R. Area: C4; Social Justice*
- PHIL 330 - Epistemology: Knowing and Not Knowing *Units: 3 ; G.E./G.R. Area: C4*
- PHIL 331 - Metaphysics: Being and Not Being *Units: 3 ; G.E./G.R. Area: C4*
- PHIL 361 - Ancient and Medieval Philosophy *Units: 3 ; G.E./G.R. Area: C4*
- PHIL 362 - Modern Philosophy *Units: 3 ; G.E./G.R. Area: C4*

In addition, students must choose one (1) course for 3 units from the following:

- PHIL 340 - Philosophy of Religion *Units: 3 ; G.E./G.R. Area: C4*
- PHIL 341 - Abrahamic Religions *Units: 3 ; G.E./G.R. Area: C4*
- PHIL 342 - Religions of Asia *Units: 3 ; G.E./G.R. Area: C4*

Concentrations

Students must choose one (1) concentration for 21 units below as part of the major requirements:

- Philosophy, B.A.: Philosophy Concentration
- Philosophy, B.A.: Religious Studies Concentration

Capstone Requirement

Students must complete the following capstone experience for 3 units to complete the major:

- PHIL 499 - Senior Seminar *Units: 3*

Religious Studies Concentration

The Religious Studies concentration is 21 units.

*Note: *Only a maximum of 3 units of lower-division can be counted towards fulfillment of the requirements for the major.*

Students must take two (2) of the following courses for 6 units:

- * PHIL 241 - Introduction to Judaism, Christianity, and Islam *Units: 3 ; G.E./G.R. Area: C2*
- * PHIL 242 - Introduction to Asian Religion *Units: 3 ; G.E./G.R. Area: C2*
- PHIL 340 - Philosophy of Religion *Units: 3 ; G.E./G.R. Area: C4*
- PHIL 341 - Abrahamic Religions *Units: 3 ; G.E./G.R. Area: C4*
- PHIL 342 - Religions of Asia *Units: 3 ; G.E./G.R. Area: C4*

Students must take a minimum of 15 units of electives from the list below. Only two (2) courses may be taken from outside of the department:

- ANTH 331 - Folklore *Units: 3 ; G.E./G.R. Area: D4*
- ENGL 430 - Bible as Literature *Units: 4*
- ES 307 - God is Red: American Indian Worldview *Units: 3 ; G.E./G.R. Area: C4; Sustainability*
- HIST 335 - Rome and Christianity *Units: 3 ; G.E./G.R. Area: C4*
- HIST 361 - Traditional India *Units: 3*
- HIST 363 - The Middle East and the Rise of Islamic Societies *Units: 3 ; G.E./G.R. Area: C4*
- HIST 375 - Religion and Diversity in America *Units: 3 ; G.E./G.R. Area: C4*
- PHIL 337 - Science and Religion *Units: 3 ; G.E./G.R. Area: C4*
- PHIL 338 - Atheism, Agnosticism, and Theism *Units: 3 ; G.E./G.R. Area: C4*
- PHIL 343 - Contemporary Religious Thinkers *Units: 3 ; G.E./G.R. Area: C4*
- PHIL 344 - Mysticism *Units: 3 ; G.E./G.R. Area: C4*
- PHIL 345 - Comparative Religion *Units: 3 ; G.E./G.R. Area: C4*
- PHIL 346 - Cults and New Religious Movements *Units: 3 ; G.E./G.R. Area: C4; Diversity*
- PHIL 347 - Religion, Monsters, and Horror *Units: 3 ; G.E./G.R. Area: C4*
- PHIL 348 - Views of the Afterlife *Units: 3 ; G.E./G.R. Area: C4*
- PHIL 349 - Africana Philosophy and Religions *Units: 3 ; G.E./G.R. Area: C4*
- PHIL 365 - Existentialism *Units: 3 ; G.E./G.R. Area: C4*
- PHIL 490 - Independent Study *Units: 3*
- PHIL 497 - Issues in Philosophy or Religion *Units: 3*

Other Undergraduate Degree Requirements

In addition to major requirements, every student must also complete the University's baccalaureate requirements for graduation, which are described in the Requirements, Exams & Testing chapter of this catalog.

Department Courses Listed by Course Type

Philosophy and Religious Studies Courses

Department of Philosophy and Religious Studies

Go to information for this department.

Courses

Philosophy

- • PHIL 100 - Workshop in Critical Thinking *Units: 3 ; G.E./G.R. Area: A3*
- • PHIL 110 - Freshman Topics in Philosophy and the Arts *Units: 3 ; G.E./G.R. Area: C1*

- • PHIL 120 - Freshman Topics in Philosophy *Units: 3 ; G.E./G.R. Area: C2*
- • PHIL 130 - Freshman Topics in Philosophy, Religion, and Social Science *Units: 3 ; G.E./G.R. Area: D1-3*
- • PHIL 201 - Introduction to Philosophy *Units: 3 ; G.E./G.R. Area: C2*
- • PHIL 211 - Introduction to Ethics *Units: 3 ; G.E./G.R. Area: C2*
- • PHIL 241 - Introduction to Judaism, Christianity, and Islam *Units: 3 ; G.E./G.R. Area: C2*
- • PHIL 242 - Introduction to Asian Religion *Units: 3 ; G.E./G.R. Area: C2*
- • PHIL 300 - Reasoning and Writing for Philosophy Majors *Units: 3*
- • PHIL 301 - Modern Logic *Units: 3 ; G.E./G.R. Area: C4*
- • PHIL 310 - Ethics *Units: 3 ; G.E./G.R. Area: C4; Social Justice*
- • PHIL 311 - Environmental Ethics *Units: 3 ; G.E./G.R. Area: C4; Sustainability*
- • PHIL 312 - Bioethics *Units: 3 ; G.E./G.R. Area: C4; Social Justice*
- • PHIL 313 - Philosophy of Business and Professional Ethics *Units: 3 ; G.E./G.R. Area: C4*
- • PHIL 320 - Philosophy of Art *Units: 3 ; G.E./G.R. Area: C4; Diversity*
- • PHIL 321 - Philosophy and Science Fiction *Units: 3 ; G.E./G.R. Area: C4; Social Justice*
- • PHIL 324 - Philosophy and Sex *Units: 3 ; G.E./G.R. Area: C4; Diversity*
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- • PHIL 331 - Metaphysics: Being and Not Being *Units: 3 ; G.E./G.R. Area: C4*
- • PHIL 332 - Philosophy of Social Science *Units: 3 ; G.E./G.R. Area: C4*
- • PHIL 333 - Philosophy of Language *Units: 3 ; G.E./G.R. Area: C4*
- • PHIL 335 - Philosophy of Science *Units: 3 ; G.E./G.R. Area: C4*
- • PHIL 336 - Philosophy of Cognition and Artificial Intelligence *Units: 3 ; G.E./G.R. Area: C4*
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- • PHIL 343 - Contemporary Religious Thinkers *Units: 3 ; G.E./G.R. Area: C4*
- • PHIL 344 - Mysticism *Units: 3 ; G.E./G.R. Area: C4*
- • PHIL 345 - Comparative Religion *Units: 3 ; G.E./G.R. Area: C4*
- • PHIL 346 - Cults and New Religious Movements *Units: 3 ; G.E./G.R. Area: C4; Diversity*
- • PHIL 347 - Religion, Monsters, and Horror *Units: 3 ; G.E./G.R. Area: C4*
- • PHIL 348 - Views of the Afterlife *Units: 3 ; G.E./G.R. Area: C4*
- • PHIL 349 - Africana Philosophy and Religions *Units: 3 ; G.E./G.R. Area: C4*
- • PHIL 351 - Social and Political Philosophy *Units: 3 ; G.E./G.R. Area: C4; Social Justice*
- • PHIL 353 - Human Rights in the U.S. *Units: 3 ; G.E./G.R. Area: C4; Diversity*
- • PHIL 354 - Global Human Rights and Social Justice *Units: 3 ; G.E./G.R. Area: C4; Social Justice*
- • PHIL 355 - Race and Justice *Units: 3 ; G.E./G.R. Area: C4; Diversity*
- • PHIL 361 - Ancient and Medieval Philosophy *Units: 3 ; G.E./G.R. Area: C4*
- • PHIL 362 - Modern Philosophy *Units: 3 ; G.E./G.R. Area: C4*
- • PHIL 365 - Existentialism *Units: 3 ; G.E./G.R. Area: C4*
- • PHIL 371 - Philosophy of Education *Units: 3 ; G.E./G.R. Area: C4*
- • PHIL 373 - African-American Philosophical Perspectives *Units: 3 ; G.E./G.R. Area: C4; Diversity*
- • PHIL 375 - Feminist Philosophy *Units: 3 ; G.E./G.R. Area: C4; Social Justice*
- • PHIL 377 - Philosophy of Law *Units: 3 ; G.E./G.R. Area: C4; Social Justice*
- • PHIL 378 - Evil *Units: 3 ; G.E./G.R. Area: C4*
- • PHIL 381 - Shamanism *Units: 3 ; G.E./G.R. Area: C4*
- • PHIL 490 - Independent Study *Units: 3*

- • PHIL 497 - Issues in Philosophy or Religion *Units: 3*
- • PHIL 499 - Senior Seminar *Units: 3*

Minor

Philosophy Minor

The minor in Philosophy is 21 units.

Core Requirements

Students must take six (6) units from the following:

- PHIL 310 - Ethics *Units: 3 ; G.E./G.R. Area: C4; Social Justice*
- PHIL 362 - Modern Philosophy *Units: 3 ; G.E./G.R. Area: C4*
- PHIL 330 - Epistemology: Knowing and Not Knowing *Units: 3 ; G.E./G.R. Area: C4*
- PHIL 331 - Metaphysics: Being and Not Being *Units: 3 ; G.E./G.R. Area: C4*
- PHIL 361 - Ancient and Medieval Philosophy *Units: 3 ; G.E./G.R. Area: C4*

Elective Requirements

Students must take five (5) additional courses from any Philosophy coursework for 15 units.

Department Courses Listed by Course Type

Philosophy and Religious Studies Courses

Department of Philosophy and Religious Studies

Go to information for this department.

Courses

Philosophy

- • PHIL 100 - Workshop in Critical Thinking *Units: 3 ; G.E./G.R. Area: A3*
- • PHIL 110 - Freshman Topics in Philosophy and the Arts *Units: 3 ; G.E./G.R. Area: C1*
- • PHIL 120 - Freshman Topics in Philosophy *Units: 3 ; G.E./G.R. Area: C2*
- • PHIL 130 - Freshman Topics in Philosophy, Religion, and Social Science *Units: 3 ; G.E./G.R. Area: D1-3*
- • PHIL 201 - Introduction to Philosophy *Units: 3 ; G.E./G.R. Area: C2*
- • PHIL 211 - Introduction to Ethics *Units: 3 ; G.E./G.R. Area: C2*
- • PHIL 241 - Introduction to Judaism, Christianity, and Islam *Units: 3 ; G.E./G.R. Area: C2*
- • PHIL 242 - Introduction to Asian Religion *Units: 3 ; G.E./G.R. Area: C2*
- • PHIL 300 - Reasoning and Writing for Philosophy Majors *Units: 3*
- • PHIL 301 - Modern Logic *Units: 3 ; G.E./G.R. Area: C4*

- • PHIL 310 - Ethics *Units: 3 ; G.E./G.R. Area: C4; Social Justice*
- • PHIL 311 - Environmental Ethics *Units: 3 ; G.E./G.R. Area: C4; Sustainability*
- • PHIL 312 - Bioethics *Units: 3 ; G.E./G.R. Area: C4; Social Justice*
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- • PHIL 354 - Global Human Rights and Social Justice *Units: 3 ; G.E./G.R. Area: C4; Social Justice*
- • PHIL 355 - Race and Justice *Units: 3 ; G.E./G.R. Area: C4; Diversity*
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- • PHIL 377 - Philosophy of Law *Units: 3 ; G.E./G.R. Area: C4; Social Justice*
- • PHIL 378 - Evil *Units: 3 ; G.E./G.R. Area: C4*
- • PHIL 381 - Shamanism *Units: 3 ; G.E./G.R. Area: C4*
- • PHIL 490 - Independent Study *Units: 3*
- • PHIL 497 - Issues in Philosophy or Religion *Units: 3*
- • PHIL 499 - Senior Seminar *Units: 3*

Department of Physics

The Department Office is located on the 2nd Floor of the North Science (SC-N) building, Room 231

Open 8:00 a.m. - 4:30 p.m., Monday - Friday.

Faculty

Professors

Derek Kimball, Ph.D. University of California, Berkeley

Jason Singley, Ph.D. University of California, San Diego

Associate Professor

Erik Helgren (Chair), Ph.D. University of California, Los Angeles

Assistant Professors

Amy Furniss, Ph.D. University of California, Santa Cruz

Kathryn Grimm, Ph.D. State University of New York, Stony Brook

Ryan Smith, Ph.D. University of Colorado, Boulder

Department Statement

Physics is crucial to understanding the world around us, the world inside us, and the world beyond us. It is the most basic and fundamental science. Physics challenges our imaginations with concepts like relativity and string theory, and it leads to great discoveries, like computers and lasers, that change our lives. In Physics, one attempts to discover, formulate, explain, and apply the basic laws of nature. Topics of study in Physics are as diverse as astrophysics, relativity, properties of materials, or the standard model of fundamental particles and interactions. Principles of Physics provide the foundation for other sciences as well as engineering.

At CSUEB students can choose between a Physics, B.S. degree and a Physics, B.A. degree.

The B.S. degree offers a comprehensive curriculum with a hands-on philosophy to learning that includes numerous laboratory courses and a strong emphasis on undergraduate research with faculty. The Physics, B.S. degree major program is designed to give students an in-depth and focused understanding of the fundamentals of physics including concepts of classical mechanics, wave motion and sound, electromagnetism and optics, heat and thermodynamics, relativity, quantum mechanics, and elementary particles and their interactions. The program prepares students for graduate school in Physics and is also an excellent foundation for other professional schools. The Physics B.S. program also prepares students for careers in basic research, defense industry, clean energy, science education, and all technology-related sectors.

The B.A. degree also provides hands-on learning with lab-based coursework but requires fewer courses, and as such the B.A. program can be finished in an accelerated timeframe. The B.A. program still provides enough experience and breadth of study so that students are well prepared for careers in basic research, defense industry, clean energy, science education, and all technology-related sectors.

Physics Major Learning Objectives

Students graduating with a Physics, B.S. or Physics, B.A. degree will be able to:

- Understand the fundamental principles of physics and be able to apply these core ideas to analyze physical processes;
- Apply quantitative reasoning and critical thinking to solve complex problems, both theoretical and experimental in nature;
- Independently learn new technical subjects and skills;
- Design, construct, assess, and troubleshoot experiments, quantitatively analyze the results using appropriate statistical procedures and tests of systematic errors, and draw meaningful conclusions;
- Effectively communicate scientific ideas, both theoretical and experimental, to diverse audiences through written and oral presentations, both formal and informal;
- Work professionally, effectively, and inclusively as a member of diverse collaborations to solve problems.

The Physics department also offers a minor in Physics and, new as of Fall 2018, a minor in Astronomy!

About the Department

Use our university website link to learn more about what the Physics Department has to offer.

- Advising
- Resources
- Graduate School
- Scholarships
- Spitzer Physics Seminars
- Internships
- And more...

Bachelor

Physics, B.A.

Physics, B.A. Program (120 units)

Program Description

In Physics, one attempts to discover, formulate, explain, and apply the basic laws of nature. Physicists work in areas as diverse as astrophysics, relativity, properties of materials, or the standard model of fundamental particles and interactions. The Principles of Physics provide the foundation for other sciences as well as engineering. Some of the examples of modern technological development from the application of physical principles include radio and television, computers, laser scanners, and communication by fiber optics. In addition, physicists explore problems in astronomy and theories for the origin and evolution of the universe.

At Cal State East Bay students can choose between a Bachelor of Science (B.S) degree and a Bachelor of Arts (B.A.) degree with a major in Physics. The B.S. degree major program is designed to give students an understanding of the fundamentals of physics including concepts of atomic and nuclear physics,

classical mechanics, wave motion and sound, electromagnetism and optics, heat and thermodynamics, relativity, quantum mechanics, and elementary particles and their interactions.

Whereas the B.S. degree provides more focus, the B.A. degree major program is designed to satisfy the needs of students who require greater breadth of study across the sciences than the B.S. program can provide. Students who might be more interested in the B.A. degree, for example, would be prospective secondary-school teachers, or students who wish to pursue interdisciplinary study (e.g., in biophysics), or graduate study in professional programs (e.g., in the health sciences), business, or law in technical fields. For those students interested in becoming secondary-school teachers, an option in Physics Education is available which has a larger breadth of science courses required for teaching in California.

Career Opportunities

Astronomer • Biochemical Engineer • Device Engineer • Electrical Engineer • Electric Power
Administrator • Geophysicists • Laboratory Assistant • Laser Technician • Mechanical
Engineer • Pharmacologist • Physics Teacher • Pollution Control Technician • Professor • Renewable
Energy Manager • Research Scientist • Satellite Engineer • Security Researcher • Software
Engineer • Technical writer

Features

With relatively small classes and teaching as a major emphasis of faculty members, the Physics major involves a considerable amount of individualized instruction. In addition, every faculty member runs a research program and students are encouraged to participate in undergraduate research.

Hands-on experience is a central theme of the programs. Upper division students use modern equipment to conduct experiments in such areas as fiber optics, atomic and molecular spectroscopy, nuclear magnetic resonance, and solar cell construction and characterization.

Physics majors have an opportunity to be inducted into the national Physics honors society, Sigma Pi Sigma. Additionally, students may join the Society of Physics Students (SPS).

Program Learning Outcomes

Students graduating with a degree in Physics will be able to:

- Describe the fundamental principles of physics and be able to apply these core ideas to analyze physical processes;
- Use quantitative reasoning and critical thinking to solve problems, both theoretical and experimental in nature;
- Learn new technical subjects and skills;
- Construct, assess and troubleshoot experiments, quantitatively analyze the results using appropriate statistical procedures and tests of systematic errors, and draw meaningful conclusions;
- Effectively explain scientific ideas, both theoretical and experimental, to diverse audiences through written and oral presentations, both formal and informal;
- Work professionally, effectively, and inclusively as a member of diverse collaborations to solve problems.

Degree Requirements Unit-Outline

- The baccalaureate of arts degree requires a total of 120 units;
- The major requirements consists of 45-49 units;
- General Education (GE) & Graduation Requirements (GR) consists of 57 units;
- Free Electives may consist of 14-18 units (*actual number of free elective units may depend on GE/GR units*).

Note: It may be possible to double-count units within the graduation requirements or that a course may satisfy both a graduation requirement and a major requirement. Students should contact their program and AACE advisors for information.

Physics (B.A.) Major Requirements (45-49 units)

Lower Division Coursework

The following 21-25 units of interdisciplinary coursework is required:

- MATH 130 - Calculus I *Units: 4 ; G.E./G.R. Area: B4*
- MATH 131 - Calculus II *Units: 3*
- MATH 210 - Linear Algebra with Differential Equations *Units: 3*
- PHYS 230 - Physical Reasoning *Units: 3 ; G.E./G.R. Area: Writing II*

And either:

- PHYS 125 - Principles of Physics I *Units: 4 ; G.E./G.R. Area: B1, B3*
- PHYS 126 - Principles of Physics II *Units: 4 ; G.E./G.R. Area: B1, B3*

OR

- PHYS 135 - Physics for Scientists and Engineers I *Units: 4 ; G.E./G.R. Area: B1, B3*
- PHYS 136 - Physics for Scientists and Engineers II *Units: 4*
- PHYS 137 - Physics for Scientists and Engineers III *Units: 4*

Upper Division Core

Take the following upper-division Physics courses for 18 units:

- PHYS 330 - Analytic Mechanics *Units: 3*
- PHYS 340 - Statistical Mechanics and Thermodynamics *Units: 3*
- PHYS 350 - Quantum Mechanics I *Units: 3*
- PHYS 380 - Advanced Laboratory I: Electronics *Units: 3*
- PHYS 381 - Advanced Laboratory II: Experimental Methods *Units: 3*
- PHYS 450 - Electromagnetism I *Units: 3*

Elective Courses

Choose a minimum of 6 units from the following:

- CHEM 100 - Introduction to College Chemistry *Units: 3 ; G.E./G.R. Area: B1, B3*
- CHEM 110 - General Chemistry for Engineering *Units: 3 ; G.E./G.R. Area: B1, B3*
- CHEM 111 - General Chemistry I *Units: 5 ; G.E./G.R. Area: B1, B3*
- CHEM 112 - General Chemistry II *Units: 5*
- CS 100 - Programming for Everyone *Units: 3*

- CS 101 - Computer Science I *Units: 4*
- PHYS 104 - Musical Acoustics *Units: 4 ; G.E./G.R. Area: B1, B3*
- PHYS 105 - How Things Work *Units: 3 ; G.E./G.R. Area: B1*
- PHYS 106 - Physics for Future Leaders *Units: 3 ; G.E./G.R. Area: B1; Sustainability*
- PHYS 107 - Science of Energy *Units: 3 ; G.E./G.R. Area: B1; Sustainability*
- PHYS 108 - Astronomy of Ancient Cultures *Units: 3 ; G.E./G.R. Area: B1; Diversity*
- PHYS 115 - Elementary Physics *Units: 3 ; G.E./G.R. Area: B1, B3*
- PHYS 138 - Descriptive Astronomy *Units: 3 ; G.E./G.R. Area: B1*
- PHYS 139 - Astronomy Laboratory *Units: 1 ; G.E./G.R. Area: B3*
- PHYS 303 - Biophysics *Units: 3 ; G.E./G.R. Area: B6*
- PHYS 337 - Extrasolar Planets *Units: 3 ; G.E./G.R. Area: B6*
- PHYS 338 - The Cosmos *Units: 3 ; G.E./G.R. Area: B6*
- PHYS 339 - Stars and Galaxies *Units: 3 ; G.E./G.R. Area: B6*
- PHYS 351 - Quantum Mechanics II *Units: 3*
- PHYS 360 - Selected Topics *Units: 1*
- PHYS 451 - Electromagnetism II *Units: 3*
- PHYS 460 - Astrophysics *Units: 3*
- PHYS 461 - Atomic Physics *Units: 3*
- PHYS 462 - Solid State Physics *Units: 3*
- PHYS 463 - Particle Physics *Units: 3*
- PHYS 480 - Advanced Laboratory III: Modeling, Design, and Analysis *Units: 3*
- PHYS 481 - Advanced Laboratory IV: Projects *Units: 3*
- PHYS 497 - Issues in Physics *Units: 3*
- SCI 308 - Hands-On Science Teaching *Units: 1*

Other Undergraduate Degree Requirements

In addition to major requirements, every student must also complete the University's baccalaureate requirements for graduation, which are described in the Requirements, Exams & Testing chapter of this catalog.

Department Courses Listed by Course Type

Physics Courses

Department of Physics

Go to information for this department.

Courses

Physics

- • PHYS 104 - Musical Acoustics *Units: 4 ; G.E./G.R. Area: B1, B3*

- • PHYS 105 - How Things Work *Units: 3 ; G.E./G.R. Area: B1*
- • PHYS 106 - Physics for Future Leaders *Units: 3 ; G.E./G.R. Area: B1; Sustainability*
- • PHYS 107 - Science of Energy *Units: 3 ; G.E./G.R. Area: B1; Sustainability*
- • PHYS 108 - Astronomy of Ancient Cultures *Units: 3 ; G.E./G.R. Area: B1; Diversity*
- • PHYS 115 - Elementary Physics *Units: 3 ; G.E./G.R. Area: B1, B3*
- • PHYS 125 - Principles of Physics I *Units: 4 ; G.E./G.R. Area: B1, B3*
- • PHYS 125A - Principles of Physics I - Discussion *Units: 1*
- • PHYS 126 - Principles of Physics II *Units: 4 ; G.E./G.R. Area: B1, B3*
- • PHYS 126A - Principles of Physics II - Discussion *Units: 1*
- • PHYS 135 - Physics for Scientists and Engineers I *Units: 4 ; G.E./G.R. Area: B1, B3*
- • PHYS 136 - Physics for Scientists and Engineers II *Units: 4*
- • PHYS 137 - Physics for Scientists and Engineers III *Units: 4*
- • PHYS 138 - Descriptive Astronomy *Units: 3 ; G.E./G.R. Area: B1*
- • PHYS 139 - Astronomy Laboratory *Units: 1 ; G.E./G.R. Area: B3*
- • PHYS 230 - Physical Reasoning *Units: 3 ; G.E./G.R. Area: Writing II*
- • PHYS 301 - Physics Connections *Units: 3 ; G.E./G.R. Area: B6*
- • PHYS 302 - Physics Connections Laboratory *Units: 1*
- • PHYS 303 - Biophysics *Units: 3 ; G.E./G.R. Area: B6*
- • PHYS 304 - Acoustics *Units: 3 ; G.E./G.R. Area: B6*
- • PHYS 305 - Environmental Health Science Electromagnetic and Nuclear Radiation *Units: 3*
- • PHYS 307 - Social Impact Through Sustainable Solar Design *Units: 3 ; G.E./G.R. Area: B6; Sustainability*
- • PHYS 308 - Sustainable Energy Systems *Units: 3 ; G.E./G.R. Area: B6; Sustainability*
- • PHYS 330 - Analytic Mechanics *Units: 3*
- • PHYS 337 - Extrasolar Planets *Units: 3 ; G.E./G.R. Area: B6*
- • PHYS 338 - The Cosmos *Units: 3 ; G.E./G.R. Area: B6*
- • PHYS 339 - Stars and Galaxies *Units: 3 ; G.E./G.R. Area: B6*
- • PHYS 340 - Statistical Mechanics and Thermodynamics *Units: 3*
- • PHYS 350 - Quantum Mechanics I *Units: 3*
- • PHYS 351 - Quantum Mechanics II *Units: 3*
- • PHYS 360 - Selected Topics *Units: 1*
- • PHYS 380 - Advanced Laboratory I: Electronics *Units: 3*
- • PHYS 381 - Advanced Laboratory II: Experimental Methods *Units: 3*
- • PHYS 398 - Internship *Units: 1-3*
- • PHYS 450 - Electromagnetism I *Units: 3*
- • PHYS 451 - Electromagnetism II *Units: 3*
- • PHYS 460 - Astrophysics *Units: 3*
- • PHYS 461 - Atomic Physics *Units: 3*
- • PHYS 462 - Solid State Physics *Units: 3*
- • PHYS 463 - Particle Physics *Units: 3*
- • PHYS 480 - Advanced Laboratory III: Modeling, Design, and Analysis *Units: 3*
- • PHYS 481 - Advanced Laboratory IV: Projects *Units: 3*
- • PHYS 490 - Independent Study *Units: 1-4*
- • PHYS 495 - Physics Practicum *Units: 1*
- • PHYS 497 - Issues in Physics *Units: 3*

Physics, B.S.

Physics, B.S. Program (120 units)

Program Description

In Physics, one attempts to discover, formulate, explain, and apply the basic laws of nature. Physicists work in areas as diverse as astrophysics, relativity, properties of materials, or the standard model of fundamental particles and interactions. The Principles of Physics provide the foundation for other sciences as well as engineering. Some of the examples of modern technological development from the application of physical principles include radio and television, computers, laser scanners, and communication by fiber optics. In addition, physicists explore problems in astronomy and theories for the origin and evolution of the universe.

At Cal State East Bay students can choose between a Bachelor of Science (B.S) degree and a Bachelor of Arts (B.A.) degree with a major in Physics. The B.S. degree major program is designed to give students an understanding of the fundamentals of physics including concepts of atomic and nuclear physics, classical mechanics, wave motion and sound, electromagnetism and optics, heat and thermodynamics, relativity, quantum mechanics, and elementary particles and their interactions.

Whereas the B.S. degree provides more focus, the B.A. degree major program is designed to satisfy the needs of students who require greater breadth of study across the sciences than the B.S. program can provide. Students who might be more interested in the B.A. degree, for example, would be prospective secondary-school teachers, or students who wish to pursue interdisciplinary study (e.g., in biophysics), or graduate study in professional programs (e.g., in the health sciences), business, or law in technical fields. For those students interested in becoming secondary-school teachers, an option in Physics Education is available which has a larger breadth of science courses required for teaching in California.

Career Opportunities

Astronomer • Biochemical Engineer • Device Engineer • Electrical Engineer • Electric Power
Administrator • Geophysicists • Laboratory Assistant • Laser Technician • Mechanical
Engineer • Pharmacologist • Physics Teacher • Pollution Control Technician • Professor • Renewable
Energy Manager • Research Scientist • Satellite Engineer • Security Researcher • Software
Engineer • Technical writer

Features

With relatively small classes and teaching as a major emphasis of faculty members, the Physics major involves a considerable amount of individualized instruction. In addition, every faculty member runs a research program and students are encouraged to participate in undergraduate research.

Hands-on experience is a central theme of the programs. Upper division students use modern equipment to conduct experiments in such areas as fiber optics, atomic and molecular spectroscopy, nuclear magnetic resonance, and solar cell construction and characterization.

Physics majors have an opportunity to be inducted into the national Physics honors society, Sigma Pi Sigma. Additionally, students may join the Society of Physics Students (SPS).

Program Learning Outcomes

- Explain the fundamental principles of physics and be able to apply these core ideas to analyze physical processes;
- Apply quantitative reasoning and critical thinking to solve complex problems, both theoretical and experimental in nature;
- Independently learn new technical subjects and skills;
- Design, construct, assess and troubleshoot experiments, quantitatively analyze the results using appropriate statistical procedures and tests of systematic errors, and draw meaningful conclusions;
- Effectively discuss scientific ideas, both theoretical and experimental, to diverse audiences through written and oral presentations, both formal and informal;
- Work professionally, effectively, and inclusively as a member of diverse collaborations to solve problems.

Degree Requirements Unit-Outline

- The baccalaureate of arts degree requires a total of 120 units;
- The major requirements consists of 67 units;
- General Education (GE) & Graduation Requirements (GR) consists of 57 units;
- Free Electives may consist of 0 units (*actual number of free elective units may depend on GE/GR units*).

Note: It may be possible to double-count units within the graduation requirements or that a course may satisfy both a graduation requirement and a major requirement. Students should contact their program and AACE Advisors for information.

Physics (B.S.) Major Requirements (67 units)

Lower Division Core

The following 31 units of interdisciplinary coursework is required:

- CHEM 110 - General Chemistry for Engineering *Units: 3 ; G.E./G.R. Area: B1, B3*
- MATH 130 - Calculus I *Units: 4 ; G.E./G.R. Area: B4*
- MATH 131 - Calculus II *Units: 3*
- MATH 210 - Linear Algebra with Differential Equations *Units: 3*
- MATH 230 - Calculus III *Units: 3*
- PHYS 135 - Physics for Scientists and Engineers I *Units: 4 ; G.E./G.R. Area: B1, B3*
- PHYS 136 - Physics for Scientists and Engineers II *Units: 4*
- PHYS 137 - Physics for Scientists and Engineers III *Units: 4*
- PHYS 230 - Physical Reasoning *Units: 3 ; G.E./G.R. Area: Writing II*

Upper Division Core

Take the following upper-division Physics courses for 30 units:

- PHYS 330 - Analytic Mechanics *Units: 3*
- PHYS 340 - Statistical Mechanics and Thermodynamics *Units: 3*
- PHYS 350 - Quantum Mechanics I *Units: 3*
- PHYS 351 - Quantum Mechanics II *Units: 3*
- PHYS 380 - Advanced Laboratory I: Electronics *Units: 3*

- PHYS 381 - Advanced Laboratory II: Experimental Methods *Units: 3*
- PHYS 450 - Electromagnetism I *Units: 3*
- PHYS 451 - Electromagnetism II *Units: 3*
- PHYS 480 - Advanced Laboratory III: Modeling, Design, and Analysis *Units: 3*
- PHYS 481 - Advanced Laboratory IV: Projects *Units: 3*

Elective Courses

Choose a minimum of 6 units from the following:

- PHYS 460 - Astrophysics *Units: 3*
- PHYS 461 - Atomic Physics *Units: 3*
- PHYS 462 - Solid State Physics *Units: 3*
- PHYS 463 - Particle Physics *Units: 3*

Other Undergraduate Degree Requirements

In addition to major requirements, every student must also complete the University's baccalaureate requirements for graduation, which are described in the Requirements, Exams & Testing chapter of this catalog.

Department Courses Listed by Course Type

Physics Courses

Department of Physics

Go to information for this department.

Courses

Physics

- • PHYS 104 - Musical Acoustics *Units: 4 ; G.E./G.R. Area: B1, B3*
- • PHYS 105 - How Things Work *Units: 3 ; G.E./G.R. Area: B1*
- • PHYS 106 - Physics for Future Leaders *Units: 3 ; G.E./G.R. Area: B1; Sustainability*
- • PHYS 107 - Science of Energy *Units: 3 ; G.E./G.R. Area: B1; Sustainability*
- • PHYS 108 - Astronomy of Ancient Cultures *Units: 3 ; G.E./G.R. Area: B1; Diversity*
- • PHYS 115 - Elementary Physics *Units: 3 ; G.E./G.R. Area: B1, B3*
- • PHYS 125 - Principles of Physics I *Units: 4 ; G.E./G.R. Area: B1, B3*
- • PHYS 125A - Principles of Physics I - Discussion *Units: 1*
- • PHYS 126 - Principles of Physics II *Units: 4 ; G.E./G.R. Area: B1, B3*
- • PHYS 126A - Principles of Physics II - Discussion *Units: 1*
- • PHYS 135 - Physics for Scientists and Engineers I *Units: 4 ; G.E./G.R. Area: B1, B3*
- • PHYS 136 - Physics for Scientists and Engineers II *Units: 4*
- • PHYS 137 - Physics for Scientists and Engineers III *Units: 4*

- • PHYS 138 - Descriptive Astronomy *Units: 3 ; G.E./G.R. Area: B1*
- • PHYS 139 - Astronomy Laboratory *Units: 1 ; G.E./G.R. Area: B3*
- • PHYS 230 - Physical Reasoning *Units: 3 ; G.E./G.R. Area: Writing II*
- • PHYS 301 - Physics Connections *Units: 3 ; G.E./G.R. Area: B6*
- • PHYS 302 - Physics Connections Laboratory *Units: 1*
- • PHYS 303 - Biophysics *Units: 3 ; G.E./G.R. Area: B6*
- • PHYS 304 - Acoustics *Units: 3 ; G.E./G.R. Area: B6*
- • PHYS 305 - Environmental Health Science Electromagnetic and Nuclear Radiation *Units: 3*
- • PHYS 307 - Social Impact Through Sustainable Solar Design *Units: 3 ; G.E./G.R. Area: B6; Sustainability*
- • PHYS 308 - Sustainable Energy Systems *Units: 3 ; G.E./G.R. Area: B6; Sustainability*
- • PHYS 330 - Analytic Mechanics *Units: 3*
- • PHYS 337 - Extrasolar Planets *Units: 3 ; G.E./G.R. Area: B6*
- • PHYS 338 - The Cosmos *Units: 3 ; G.E./G.R. Area: B6*
- • PHYS 339 - Stars and Galaxies *Units: 3 ; G.E./G.R. Area: B6*
- • PHYS 340 - Statistical Mechanics and Thermodynamics *Units: 3*
- • PHYS 350 - Quantum Mechanics I *Units: 3*
- • PHYS 351 - Quantum Mechanics II *Units: 3*
- • PHYS 360 - Selected Topics *Units: 1*
- • PHYS 380 - Advanced Laboratory I: Electronics *Units: 3*
- • PHYS 381 - Advanced Laboratory II: Experimental Methods *Units: 3*
- • PHYS 398 - Internship *Units: 1-3*
- • PHYS 450 - Electromagnetism I *Units: 3*
- • PHYS 451 - Electromagnetism II *Units: 3*
- • PHYS 460 - Astrophysics *Units: 3*
- • PHYS 461 - Atomic Physics *Units: 3*
- • PHYS 462 - Solid State Physics *Units: 3*
- • PHYS 463 - Particle Physics *Units: 3*
- • PHYS 480 - Advanced Laboratory III: Modeling, Design, and Analysis *Units: 3*
- • PHYS 481 - Advanced Laboratory IV: Projects *Units: 3*
- • PHYS 490 - Independent Study *Units: 1-4*
- • PHYS 495 - Physics Practicum *Units: 1*
- • PHYS 497 - Issues in Physics *Units: 3*

Minor

Astronomy Minor

Minor Requirements (21-25 units)

Physics Fundamental Coursework

Take the following 11-15 units as outline below:

Take the following 3 units:

- PHYS 230 - Physical Reasoning *Units: 3 ; G.E./G.R. Area: Writing II*

And, choose one (1) group of coursework for 8-12 units:

- PHYS 125 - Principles of Physics I *Units: 4 ; G.E./G.R. Area: B1, B3*
- PHYS 126 - Principles of Physics II *Units: 4 ; G.E./G.R. Area: B1, B3*

OR

- PHYS 135 - Physics for Scientists and Engineers I *Units: 4 ; G.E./G.R. Area: B1, B3*
- PHYS 136 - Physics for Scientists and Engineers II *Units: 4*
- PHYS 137 - Physics for Scientists and Engineers III *Units: 4*

Astronomy Fundamental Coursework

Take the following 7 units as outlined:

Take the following 4 units:

- PHYS 139 - Astronomy Laboratory *Units: 1 ; G.E./G.R. Area: B3*
- PHYS 338 - The Cosmos *Units: 3 ; G.E./G.R. Area: B6*

Plus, choose one (1) course for 3 units from the following:

- PHYS 108 - Astronomy of Ancient Cultures *Units: 3 ; G.E./G.R. Area: B1; Diversity*
- PHYS 138 - Descriptive Astronomy *Units: 3 ; G.E./G.R. Area: B1*

Elective Course

Choose one (1) course for 3 units from the following:

- PHYS 337 - Extrasolar Planets *Units: 3 ; G.E./G.R. Area: B6*
- PHYS 339 - Stars and Galaxies *Units: 3 ; G.E./G.R. Area: B6*
- PHYS 460 - Astrophysics *Units: 3*

Department Courses Listed by Course Type

Physics Courses

Department of Physics

Go to information for this department.

Courses

Physics

- • PHYS 104 - Musical Acoustics *Units: 4 ; G.E./G.R. Area: B1, B3*
- • PHYS 105 - How Things Work *Units: 3 ; G.E./G.R. Area: B1*
- • PHYS 106 - Physics for Future Leaders *Units: 3 ; G.E./G.R. Area: B1; Sustainability*
- • PHYS 107 - Science of Energy *Units: 3 ; G.E./G.R. Area: B1; Sustainability*
- • PHYS 108 - Astronomy of Ancient Cultures *Units: 3 ; G.E./G.R. Area: B1; Diversity*
- • PHYS 115 - Elementary Physics *Units: 3 ; G.E./G.R. Area: B1, B3*
- • PHYS 125 - Principles of Physics I *Units: 4 ; G.E./G.R. Area: B1, B3*

- • PHYS 125A - Principles of Physics I - Discussion *Units: 1*
- • PHYS 126 - Principles of Physics II *Units: 4 ; G.E./G.R. Area: B1, B3*
- • PHYS 126A - Principles of Physics II - Discussion *Units: 1*
- • PHYS 135 - Physics for Scientists and Engineers I *Units: 4 ; G.E./G.R. Area: B1, B3*
- • PHYS 136 - Physics for Scientists and Engineers II *Units: 4*
- • PHYS 137 - Physics for Scientists and Engineers III *Units: 4*
- • PHYS 138 - Descriptive Astronomy *Units: 3 ; G.E./G.R. Area: B1*
- • PHYS 139 - Astronomy Laboratory *Units: 1 ; G.E./G.R. Area: B3*
- • PHYS 230 - Physical Reasoning *Units: 3 ; G.E./G.R. Area: Writing II*
- • PHYS 301 - Physics Connections *Units: 3 ; G.E./G.R. Area: B6*
- • PHYS 302 - Physics Connections Laboratory *Units: 1*
- • PHYS 303 - Biophysics *Units: 3 ; G.E./G.R. Area: B6*
- • PHYS 304 - Acoustics *Units: 3 ; G.E./G.R. Area: B6*
- • PHYS 305 - Environmental Health Science Electromagnetic and Nuclear Radiation *Units: 3*
- • PHYS 307 - Social Impact Through Sustainable Solar Design *Units: 3 ; G.E./G.R. Area: B6; Sustainability*
- • PHYS 308 - Sustainable Energy Systems *Units: 3 ; G.E./G.R. Area: B6; Sustainability*
- • PHYS 330 - Analytic Mechanics *Units: 3*
- • PHYS 337 - Extrasolar Planets *Units: 3 ; G.E./G.R. Area: B6*
- • PHYS 338 - The Cosmos *Units: 3 ; G.E./G.R. Area: B6*
- • PHYS 339 - Stars and Galaxies *Units: 3 ; G.E./G.R. Area: B6*
- • PHYS 340 - Statistical Mechanics and Thermodynamics *Units: 3*
- • PHYS 350 - Quantum Mechanics I *Units: 3*
- • PHYS 351 - Quantum Mechanics II *Units: 3*
- • PHYS 360 - Selected Topics *Units: 1*
- • PHYS 380 - Advanced Laboratory I: Electronics *Units: 3*
- • PHYS 381 - Advanced Laboratory II: Experimental Methods *Units: 3*
- • PHYS 398 - Internship *Units: 1-3*
- • PHYS 450 - Electromagnetism I *Units: 3*
- • PHYS 451 - Electromagnetism II *Units: 3*
- • PHYS 460 - Astrophysics *Units: 3*
- • PHYS 461 - Atomic Physics *Units: 3*
- • PHYS 462 - Solid State Physics *Units: 3*
- • PHYS 463 - Particle Physics *Units: 3*
- • PHYS 480 - Advanced Laboratory III: Modeling, Design, and Analysis *Units: 3*
- • PHYS 481 - Advanced Laboratory IV: Projects *Units: 3*
- • PHYS 490 - Independent Study *Units: 1-4*
- • PHYS 495 - Physics Practicum *Units: 1*
- • PHYS 497 - Issues in Physics *Units: 3*

Physics Minor

Minor Requirements (24 units)

Required Courses

Take the following 11-15 units as outlined:

Take the following 3 units:

- **PHYS 230 - Physical Reasoning** *Units: 3 ; G.E./G.R. Area: Writing II*

And, choose one (1) group of coursework for 8-12 units:

- **PHYS 125 - Principles of Physics I** *Units: 4 ; G.E./G.R. Area: B1, B3*
- **PHYS 126 - Principles of Physics II** *Units: 4 ; G.E./G.R. Area: B1, B3*

OR

- **PHYS 135 - Physics for Scientists and Engineers I** *Units: 4 ; G.E./G.R. Area: B1, B3*
- **PHYS 136 - Physics for Scientists and Engineers II** *Units: 4*
- **PHYS 137 - Physics for Scientists and Engineers III** *Units: 4*

Elective Courses

Choose a minimum of 9-13 units of coursework to complete the 24 unit requirement from the following:

- **PHYS 104 - Musical Acoustics** *Units: 4 ; G.E./G.R. Area: B1, B3*
- **PHYS 106 - Physics for Future Leaders** *Units: 3 ; G.E./G.R. Area: B1; Sustainability*
- **PHYS 107 - Science of Energy** *Units: 3 ; G.E./G.R. Area: B1; Sustainability*
- **PHYS 108 - Astronomy of Ancient Cultures** *Units: 3 ; G.E./G.R. Area: B1; Diversity*
- **PHYS 115 - Elementary Physics** *Units: 3 ; G.E./G.R. Area: B1, B3*
- **PHYS 307 - Social Impact Through Sustainable Solar Design** *Units: 3 ; G.E./G.R. Area: B6; Sustainability*
- **PHYS 330 - Analytic Mechanics** *Units: 3*
- **PHYS 340 - Statistical Mechanics and Thermodynamics** *Units: 3*
- **PHYS 350 - Quantum Mechanics I** *Units: 3*
- **PHYS 351 - Quantum Mechanics II** *Units: 3*
- **PHYS 380 - Advanced Laboratory I: Electronics** *Units: 3*
- **PHYS 381 - Advanced Laboratory II: Experimental Methods** *Units: 3*
- **PHYS 450 - Electromagnetism I** *Units: 3*
- **PHYS 451 - Electromagnetism II** *Units: 3*
- **PHYS 460 - Astrophysics** *Units: 3*
- **PHYS 461 - Atomic Physics** *Units: 3*
- **PHYS 462 - Solid State Physics** *Units: 3*
- **PHYS 463 - Particle Physics** *Units: 3*
- **PHYS 480 - Advanced Laboratory III: Modeling, Design, and Analysis** *Units: 3*
- **PHYS 481 - Advanced Laboratory IV: Projects** *Units: 3*
- **SCI 308 - Hands-On Science Teaching** *Units: 1*

Department Courses Listed by Course Type

Physics Courses

Department of Physics

Go to information for this department.

Courses

Physics

- • PHYS 104 - Musical Acoustics *Units: 4 ; G.E./G.R. Area: B1, B3*
- • PHYS 105 - How Things Work *Units: 3 ; G.E./G.R. Area: B1*
- • PHYS 106 - Physics for Future Leaders *Units: 3 ; G.E./G.R. Area: B1; Sustainability*
- • PHYS 107 - Science of Energy *Units: 3 ; G.E./G.R. Area: B1; Sustainability*
- • PHYS 108 - Astronomy of Ancient Cultures *Units: 3 ; G.E./G.R. Area: B1; Diversity*
- • PHYS 115 - Elementary Physics *Units: 3 ; G.E./G.R. Area: B1, B3*
- • PHYS 125 - Principles of Physics I *Units: 4 ; G.E./G.R. Area: B1, B3*
- • PHYS 125A - Principles of Physics I - Discussion *Units: 1*
- • PHYS 126 - Principles of Physics II *Units: 4 ; G.E./G.R. Area: B1, B3*
- • PHYS 126A - Principles of Physics II - Discussion *Units: 1*
- • PHYS 135 - Physics for Scientists and Engineers I *Units: 4 ; G.E./G.R. Area: B1, B3*
- • PHYS 136 - Physics for Scientists and Engineers II *Units: 4*
- • PHYS 137 - Physics for Scientists and Engineers III *Units: 4*
- • PHYS 138 - Descriptive Astronomy *Units: 3 ; G.E./G.R. Area: B1*
- • PHYS 139 - Astronomy Laboratory *Units: 1 ; G.E./G.R. Area: B3*
- • PHYS 230 - Physical Reasoning *Units: 3 ; G.E./G.R. Area: Writing II*
- • PHYS 301 - Physics Connections *Units: 3 ; G.E./G.R. Area: B6*
- • PHYS 302 - Physics Connections Laboratory *Units: 1*
- • PHYS 303 - Biophysics *Units: 3 ; G.E./G.R. Area: B6*
- • PHYS 304 - Acoustics *Units: 3 ; G.E./G.R. Area: B6*
- • PHYS 305 - Environmental Health Science Electromagnetic and Nuclear Radiation *Units: 3*
- • PHYS 307 - Social Impact Through Sustainable Solar Design *Units: 3 ; G.E./G.R. Area: B6; Sustainability*
- • PHYS 308 - Sustainable Energy Systems *Units: 3 ; G.E./G.R. Area: B6; Sustainability*
- • PHYS 330 - Analytic Mechanics *Units: 3*
- • PHYS 337 - Extrasolar Planets *Units: 3 ; G.E./G.R. Area: B6*
- • PHYS 338 - The Cosmos *Units: 3 ; G.E./G.R. Area: B6*
- • PHYS 339 - Stars and Galaxies *Units: 3 ; G.E./G.R. Area: B6*
- • PHYS 340 - Statistical Mechanics and Thermodynamics *Units: 3*
- • PHYS 350 - Quantum Mechanics I *Units: 3*
- • PHYS 351 - Quantum Mechanics II *Units: 3*
- • PHYS 360 - Selected Topics *Units: 1*
- • PHYS 380 - Advanced Laboratory I: Electronics *Units: 3*
- • PHYS 381 - Advanced Laboratory II: Experimental Methods *Units: 3*
- • PHYS 398 - Internship *Units: 1-3*
- • PHYS 450 - Electromagnetism I *Units: 3*
- • PHYS 451 - Electromagnetism II *Units: 3*
- • PHYS 460 - Astrophysics *Units: 3*
- • PHYS 461 - Atomic Physics *Units: 3*
- • PHYS 462 - Solid State Physics *Units: 3*
- • PHYS 463 - Particle Physics *Units: 3*
- • PHYS 480 - Advanced Laboratory III: Modeling, Design, and Analysis *Units: 3*
- • PHYS 481 - Advanced Laboratory IV: Projects *Units: 3*
- • PHYS 490 - Independent Study *Units: 1-4*

- • PHYS 495 - Physics Practicum *Units: 1*
- • PHYS 497 - Issues in Physics *Units: 3*

Department of Political Science

The Department Office is located on 4th Floor of the Student & Faculty Support building, Room 402

Office Hours: 8:00 a.m. - 5:00 p.m., Monday through Friday

Dept Phone: (510) 885-3221

Faculty

Professor Emeritus

David Sadofsky Baggins, Ph.D. Syracuse University

Professor

Kim Geron, Ph.D. University of California, Riverside

Associate Professors

Elizabeth Bergman (Chair), Ph.D. Claremont Graduate University

Maria C. Ortuoste, Ph.D. Arizona State University

Assistant Professors

Amy Below, Ph.D. University of Southern California

Jeremiah Garretson, Ph.D. Vanderbilt University

Danvy Le, Ph.D. University of California, Irvine

Department Statement

The Department of Political Science offers a B.A. degree that gives both a strong background in social science and excellent professional preparation. The major offers three distinct paths to completion, the traditional major and options in pre-law and public affairs and administration. The two options offer interdisciplinary pre-professional curricula. The department is strong in every aspect of American government (national, state, and local institutions, public policy, public law, and public administration), as well as Comparative Politics in international relations. Political Science majors learn to be strong writers, public speakers, and researchers. Opportunities are also offered to learn advanced social science methodology and practical political skills, as well as to participate in faculty research. Students receive assistance in finding - and credit for completing - local, state, and national internships.

Graduating seniors report very high levels of satisfaction with the major, and the number of Political Science majors continues to grow.

About the Department

Use our university website link to learn more about what the Political Science Department has to offer.

- Advising
- Faculty Profiles
- Degree Roadmaps
- Scholarships
- Reference Links
- Spotlights
- Model United Nations
- And more...

Bachelor

Political Science, B.A.: Pre-Law Concentration

Political Science, B.A. Program (120 units)

Program Description

The political science curriculum helps students to acquire an organized body of knowledge about government and to think analytically about public policy, law, and politics. The political science degree prepares graduates to enter careers in government, public service, public administration, public policy analysis, legislative advocacy, business, international relations, and teaching. Many Cal State East Bay political science graduates continue their academic careers in law school, or in the pursuit of graduate degrees in political science or public policy analysis.

Program Learning Outcomes

Students graduating with a B.A. in Political Science will be able to:

- develop and articulate an understanding of democratic theory and practice and gain practical experience in politics, public policy, and civic engagement.
- demonstrate through oral and written competency, an understanding of the theories, concepts, empirical content, and research agendas of the fields of political science with advanced understanding in the selected option.
- demonstrate an understanding of political culture in the U.S. and around the world including the economic, ideological, ethnic and cultural groups and movements that engage the political process.
- articulate career goals, demonstrate knowledge of how to achieve those goals, and produce evidence of working to achieve the goals.
- demonstrate the ability to apply knowledge through collaborative learning and teamwork.

Career Opportunities

Administrative Assistant • Attorney • Campaign Aide/Manager • Diplomat • FBI/CIA Agent • Foreign Service Officer • International Relations Specialist • Journalist • Labor Organizer/Union Representative • Law Clerk • Legislative Advocate/Lobbyist • Legislative Aide • Paralegal • Legal Assistant • Police Officer • Politician • Polling Specialist • Private Investigator • Public Administrator • Public Information Officer • Research Specialist • Secret Service Agent • Teacher

Features

The political science major offers a Pre-Law option for students planning a career in law. The Political Science department offers a major and a minor. Special features of the Political Science major include: the Intercollegiate Model United Nations Club; field trips to Sacramento and to State and Federal courts; guest political speakers; pre-law advising; local, Sacramento, Washington, and political campaign internships; and the Political Science Club.

Preparation

For Advanced Placement course equivalencies, see Registration.

Degree Requirements Unit-Outline

- A baccalaureate of arts degree requires a total of 120 units;
- The major requirements consists of 39 units
- General Education & Graduation Requirements consists of 57 units;
- Free Electives may consist of 24 units (*actual number of free elective units may depend on GE/GR units*).

Note: It may be possible to double-count units within the graduation requirements or that a course may satisfy both a graduation requirement and a major requirement. Students should contact their program and AACE advisors for information.

Political Science Major Requirements (39 units)

Core Coursework

Please consult an advisor in your major department for clarification and interpretation of your major requirements. In addition to the Core Requirements, students must choose one (1) of three concentrations for 12-units to complete the major.

The Core Requirement consists of 27 units as outlined below:

The following 9 units are required:

- POSC 101 - American Political Institutions Units: 3 ; G.E./G.R. Area: D1-3; US-1, US-2
- POSC 102 - Public Policy/California Politics Units: 3 ; G.E./G.R. Area: D1-3; US-1, US-3
- POSC 300 - The Study of Political Science Units: 3

Complete two (2) upper-division courses for 6 units from either the *American Government and Politics* area or the *Public Policy and Administration* area:

American Government and Politics

- POSC 311 - The American Presidency *Units: 3*
- POSC 312 - United States Congress *Units: 3*
- POSC 314 - State and Local Politics and Government *Units: 3*
- POSC 315 - Urban Politics *Units: 3*
- POSC 316 - Politics of California *Units: 3*
- POSC 330 - Voting and Public Opinion *Units: 3*
- POSC 331 - Political Parties and Campaigning *Units: 3*
- POSC 333 - Practical Politics *Units: 3*
- POSC 334 - Interest Groups, Lobbying, and Political Reform *Units: 3*
- POSC 335 - Women and Politics *Units: 3*
- POSC 336 - Ethnic and Minority Politics *Units: 3*
- POSC 337 - African American Politics *Units: 3*
- POSC 338 - Asian American Politics *Units: 3*
- POSC 495 - Political Internship *Units: 1-3*

Public Policy and Administration

- POSC 380 - Public Policy Analysis *Units: 3*
- POSC 383 - Labor Policy and Law *Units: 3*
- POSC 410 - Politics of Budgeting *Units: 3*
- POSC 411 - Public Policy and the Environment *Units: 3*
- POSC 412 - Bureaucratic Politics and Administrative Law *Units: 3*

Complete one (1) course in EACH of the three areas below for 9 units. Students may also substitute an advisor-approved lower-division course for these areas:

Comparative Government and Politics

- POSC 321 - Political Systems of Western Europe *Units: 3 ; G.E./G.R. Area: D4*
- POSC 323 - Political Systems of Asia *Units: 3 ; G.E./G.R. Area: D4*
- POSC 324 - Government and Politics in the Middle East *Units: 3*
- POSC 326 - Government and Politics of Africa South of the Sahara *Units: 3 ; G.E./G.R. Area: D4*
- POSC 327 - Political Systems of Latin America *Units: 3 ; G.E./G.R. Area: D4*
- POSC 347 - Comparative Law *Units: 3*

International Relations

- POSC 350 - World Problems and Global Response *Units: 3 ; G.E./G.R. Area: D4*
- POSC 351 - International Relations *Units: 3 ; G.E./G.R. Area: D4*
- POSC 352 - International Security in the 21st Century *Units: 3 ; G.E./G.R. Area: D4*
- POSC 353 - Politics of the Global Economy *Units: 3*
- POSC 354 - American Foreign Policy *Units: 3 ; G.E./G.R. Area: D4*
- POSC 355 - The United Nations and World Community *Units: 3 ; G.E./G.R. Area: D4*

Political Theory

- POSC 371 - Greek, Roman and Medieval Political Thought *Units: 3*
- POSC 373 - Contemporary Political Thought *Units: 3*

- POSC 374 - Marxism in Theory and Practice *Units: 3*
- POSC 375 - Theories of Empire *Units: 3*

Concentrations

Students must choose one (1) concentration for 12 units below as part of the major requirements:

- Political Science, B.A.: Pre-Law Concentration
- Political Science, B.A.: Public Affairs and Administration Concentration
- Political Science, B.A.: Traditional Political Science Concentration

Capstone Requirement

Students must complete the following capstone experience for 3 units to complete the major:

- POSC 499 - Capstone *Units: 3*

Pre-Law Concentration

Students taking this concentration will focus on 12 units of coursework in legal studies.

Choose one (1) course for 3 units from the following:

- BUS 370 - Business, Government and Society *Units: 3*
- Or any additional course NOT already taken that is listed in the *American Government and Politics* or *Public Policy and Administration* groups above.

Plus complete three (3) courses that have NOT already been taken from the following (9 units):

- POSC 340 - Law and Society *Units: 3 ; G.E./G.R. Area: C4*
- POSC 341 - American Constitutional Law: Government *Units: 3*
- POSC 342 - American Constitutional Law: Rights *Units: 3*
- POSC 343 - Survey of American Law *Units: 3*
- POSC 344 - Environmental Law *Units: 3*
- POSC 345 - International Law *Units: 3 ; G.E./G.R. Area: D4*
- POSC 412 - Bureaucratic Politics and Administrative Law *Units: 3*

Other Undergraduate Degree Requirements

In addition to major requirements, every student must also complete the University's baccalaureate requirements for graduation, which are described in the Requirements, Exams & Testing chapter of this catalog.

Department Courses Listed by Course Type

Political Science Courses

Department of Political Science

Go to information for this department.

Courses

Political Science

- • POSC 100 - Introduction to Political Science *Units: 3*
- • POSC 101 - American Political Institutions *Units: 3 ; G.E./G.R. Area: D1-3; US-1, US-2*
- • POSC 117 - Environmental Politics *Units: 3*
- • POSC 150 - Conflict in World Politics *Units: 3 ; G.E./G.R. Area: D1-3*
- • POSC 300 - The Study of Political Science *Units: 3*
- • POSC 490 - Independent Study *Units: 1-3*
- • POSC 495 - Political Internship *Units: 1-3*
- • POSC 497 - Issues in Political Science *Units: 3*
- • POSC 498 - Internship *Units: 1-3*
- • POSC 499 - Capstone *Units: 3*

Political Science: American Government and Politics

- • POSC 102 - Public Policy/California Politics *Units: 3 ; G.E./G.R. Area: D1-3; US-1, US-3*
- • POSC 311 - The American Presidency *Units: 3*
- • POSC 312 - United States Congress *Units: 3*
- • POSC 314 - State and Local Politics and Government *Units: 3*
- • POSC 315 - Urban Politics *Units: 3*
- • POSC 316 - Politics of California *Units: 3*
- • POSC 330 - Voting and Public Opinion *Units: 3*
- • POSC 331 - Political Parties and Campaigning *Units: 3*
- • POSC 332 - Citizen Action *Units: 3*
- • POSC 333 - Practical Politics *Units: 3*
- • POSC 334 - Interest Groups, Lobbying, and Political Reform *Units: 3*
- • POSC 335 - Women and Politics *Units: 3*
- • POSC 336 - Ethnic and Minority Politics *Units: 3*
- • POSC 337 - African American Politics *Units: 3*
- • POSC 338 - Asian American Politics *Units: 3*

Political Science: Comparative Government and Politics

- • POSC 321 - Political Systems of Western Europe *Units: 3 ; G.E./G.R. Area: D4*
- • POSC 322 - Government and Politics of Eastern and Central Europe *Units: 3 ; G.E./G.R. Area: D4*
- • POSC 323 - Political Systems of Asia *Units: 3 ; G.E./G.R. Area: D4*
- • POSC 324 - Government and Politics in the Middle East *Units: 3*
- • POSC 326 - Government and Politics of Africa South of the Sahara *Units: 3 ; G.E./G.R. Area: D4*
- • POSC 327 - Political Systems of Latin America *Units: 3 ; G.E./G.R. Area: D4*
- • POSC 347 - Comparative Law *Units: 3*

Political Science: International Relations

- • POSC 350 - World Problems and Global Response *Units: 3 ; G.E./G.R. Area: D4*
- • POSC 351 - International Relations *Units: 3 ; G.E./G.R. Area: D4*
- • POSC 352 - International Security in the 21st Century *Units: 3 ; G.E./G.R. Area: D4*

- • POSC 353 - Politics of the Global Economy *Units: 3*
- • POSC 354 - American Foreign Policy *Units: 3 ; G.E./G.R. Area: D4*
- • POSC 355 - The United Nations and World Community *Units: 3 ; G.E./G.R. Area: D4*

Political Science: Political Theory

- • POSC 371 - Greek, Roman and Medieval Political Thought *Units: 3*
- • POSC 373 - Contemporary Political Thought *Units: 3*
- • POSC 374 - Marxism in Theory and Practice *Units: 3*
- • POSC 375 - Theories of Empire *Units: 3*

Political Science: Public Law

- • POSC 340 - Law and Society *Units: 3 ; G.E./G.R. Area: C4*
- • POSC 341 - American Constitutional Law: Government *Units: 3*
- • POSC 342 - American Constitutional Law: Rights *Units: 3*
- • POSC 343 - Survey of American Law *Units: 3*
- • POSC 344 - Environmental Law *Units: 3*
- • POSC 345 - International Law *Units: 3 ; G.E./G.R. Area: D4*
- • POSC 377 - Philosophy of Law *Units: 3 ; G.E./G.R. Area: C4; Social Justice*

Political Science: Public Policy and Administration

- • POSC 380 - Public Policy Analysis *Units: 3*
- • POSC 382 - U.S. Immigration Policy and Law *Units: 3*
- • POSC 383 - Labor Policy and Law *Units: 3*
- • POSC 410 - Politics of Budgeting *Units: 3*
- • POSC 411 - Public Policy and the Environment *Units: 3*
- • POSC 412 - Bureaucratic Politics and Administrative Law *Units: 3*

Political Science, B.A.: Public Affairs and Administration Concentration

Political Science, B.A. Program (120 units)

Program Description

The political science curriculum helps students to acquire an organized body of knowledge about government and to think analytically about public policy, law, and politics. The political science degree prepares graduates to enter careers in government, public service, public administration, public policy analysis, legislative advocacy, business, international relations, and teaching. Many Cal State East Bay political science graduates continue their academic careers in law school, or in the pursuit of graduate degrees in political science or public policy analysis.

Program Learning Outcomes

Students graduating with a B.A. in Political Science will be able to:

- develop and articulate an understanding of democratic theory and practice and gain practical experience in politics, public policy, and civic engagement.

- demonstrate through oral and written competency, an understanding of the theories, concepts, empirical content, and research agendas of the fields of political science with advanced understanding in the selected option.
- demonstrate an understanding of political culture in the U.S. and around the world including the economic, ideological, ethnic and cultural groups and movements that engage the political process.
- articulate career goals, demonstrate knowledge of how to achieve those goals, and produce evidence of working to achieve the goals.
- demonstrate the ability to apply knowledge through collaborative learning and teamwork.

Career Opportunities

Administrative Assistant • Attorney • Campaign Aide/Manager • Diplomat • FBI/CIA Agent • Foreign Service Officer • International Relations Specialist • Journalist • Labor Organizer/Union Representative • Law Clerk • Legislative Advocate/Lobbyist • Legislative Aide • Paralegal • Legal Assistant • Police Officer • Politician • Polling Specialist • Private Investigator • Public Administrator • Public Information Officer • Research Specialist • Secret Service Agent • Teacher

Features

The political science major offers a Pre-Law option for students planning a career in law. The Political Science department offers a major and a minor. Special features of the Political Science major include: the Intercollegiate Model United Nations Club; field trips to Sacramento and to State and Federal courts; guest political speakers; pre-law advising; local, Sacramento, Washington, and political campaign internships; and the Political Science Club.

Preparation

For Advanced Placement course equivalencies, see Registration.

Degree Requirements Unit-Outline

- A baccalaureate of arts degree requires a total of 120 units;
 - The major requirements consists of 39 units
 - General Education & Graduation Requirements consists of 57 units;
 - Free Electives may consist of 24 units (*actual number of free elective units may depend on GE/GR units*).
- Note: It may be possible to double-count units within the graduation requirements or that a course may satisfy both a graduation requirement and a major requirement. Students should contact their program and AACE advisors for information.*

Political Science Major Requirements (39 units)

Core Coursework

Please consult an advisor in your major department for clarification and interpretation of your major requirements. In addition to the Core Requirements, students must choose one (1) of three concentrations for 12-units to complete the major.

The Core Requirement consists of 27 units as outlined below:

The following 9 units are required:

- POSC 101 - American Political Institutions *Units: 3 ; G.E./G.R. Area: D1-3; US-1, US-2*
- POSC 102 - Public Policy/California Politics *Units: 3 ; G.E./G.R. Area: D1-3; US-1, US-3*
- POSC 300 - The Study of Political Science *Units: 3*

Complete two (2) upper-division courses for 6 units from either the *American Government and Politics* area or the *Public Policy and Administration* area:

American Government and Politics

- POSC 311 - The American Presidency *Units: 3*
- POSC 312 - United States Congress *Units: 3*
- POSC 314 - State and Local Politics and Government *Units: 3*
- POSC 315 - Urban Politics *Units: 3*
- POSC 316 - Politics of California *Units: 3*
- POSC 330 - Voting and Public Opinion *Units: 3*
- POSC 331 - Political Parties and Campaigning *Units: 3*
- POSC 333 - Practical Politics *Units: 3*
- POSC 334 - Interest Groups, Lobbying, and Political Reform *Units: 3*
- POSC 335 - Women and Politics *Units: 3*
- POSC 336 - Ethnic and Minority Politics *Units: 3*
- POSC 337 - African American Politics *Units: 3*
- POSC 338 - Asian American Politics *Units: 3*
- POSC 495 - Political Internship *Units: 1-3*

Public Policy and Administration

- POSC 380 - Public Policy Analysis *Units: 3*
- POSC 383 - Labor Policy and Law *Units: 3*
- POSC 410 - Politics of Budgeting *Units: 3*
- POSC 411 - Public Policy and the Environment *Units: 3*
- POSC 412 - Bureaucratic Politics and Administrative Law *Units: 3*

Complete one (1) course in EACH of the three areas below for 9 units. Students may also substitute an advisor-approved lower-division course for these areas:

Comparative Government and Politics

- POSC 321 - Political Systems of Western Europe *Units: 3 ; G.E./G.R. Area: D4*
- POSC 323 - Political Systems of Asia *Units: 3 ; G.E./G.R. Area: D4*
- POSC 324 - Government and Politics in the Middle East *Units: 3*
- POSC 326 - Government and Politics of Africa South of the Sahara *Units: 3 ; G.E./G.R. Area: D4*
- POSC 327 - Political Systems of Latin America *Units: 3 ; G.E./G.R. Area: D4*
- POSC 347 - Comparative Law *Units: 3*

International Relations

- POSC 350 - World Problems and Global Response *Units: 3 ; G.E./G.R. Area: D4*

- POSC 351 - International Relations *Units: 3 ; G.E./G.R. Area: D4*
- POSC 352 - International Security in the 21st Century *Units: 3 ; G.E./G.R. Area: D4*
- POSC 353 - Politics of the Global Economy *Units: 3*
- POSC 354 - American Foreign Policy *Units: 3 ; G.E./G.R. Area: D4*
- POSC 355 - The United Nations and World Community *Units: 3 ; G.E./G.R. Area: D4*

Political Theory

- POSC 371 - Greek, Roman and Medieval Political Thought *Units: 3*
- POSC 373 - Contemporary Political Thought *Units: 3*
- POSC 374 - Marxism in Theory and Practice *Units: 3*
- POSC 375 - Theories of Empire *Units: 3*

Concentrations

Students must choose one (1) concentration for 12 units below as part of the major requirements:

- Political Science, B.A.: Pre-Law Concentration
- Political Science, B.A.: Public Affairs and Administration Concentration
- Political Science, B.A.: Traditional Political Science Concentration

Capstone Requirement

Students must complete the following capstone experience for 3 units to complete the major:

- POSC 499 - Capstone *Units: 3*

Public Affairs and Administration Concentration

Students taking this concentration need to complete an additional four (4) courses for 12 units.

Choose one (1) of the following two courses for 3 units:

- ACCT 210 - Introduction to Financial Accounting *Units: 3*
- STAT 100 - Elements of Statistics and Probability *Units: 3 ; G.E./G.R. Area: B4*

Complete one (1) Service Requirement course for 3 units:

- POSC 495 - Political Internship *Units: 1-3*
- POSC 498 - Internship *Units: 1-3*

Complete two (2) courses from the upper division Political Science courses under the following course headings:

- American Government
- Public Policy and Administration
- Public Law

Other Undergraduate Degree Requirements

In addition to major requirements, every student must also complete the University's baccalaureate requirements for graduation, which are described in the Requirements, Exams & Testing chapter of this catalog.

Department Courses Listed by Course Type

Political Science Courses

Department of Political Science

Go to information for this department.

Courses

Political Science

- • POSC 100 - Introduction to Political Science *Units: 3*
- • POSC 101 - American Political Institutions *Units: 3 ; G.E./G.R. Area: D1-3; US-1, US-2*
- • POSC 117 - Environmental Politics *Units: 3*
- • POSC 150 - Conflict in World Politics *Units: 3 ; G.E./G.R. Area: D1-3*
- • POSC 300 - The Study of Political Science *Units: 3*
- • POSC 490 - Independent Study *Units: 1-3*
- • POSC 495 - Political Internship *Units: 1-3*
- • POSC 497 - Issues in Political Science *Units: 3*
- • POSC 498 - Internship *Units: 1-3*
- • POSC 499 - Capstone *Units: 3*

Political Science: American Government and Politics

- • POSC 102 - Public Policy/California Politics *Units: 3 ; G.E./G.R. Area: D1-3; US-1, US-3*
- • POSC 311 - The American Presidency *Units: 3*
- • POSC 312 - United States Congress *Units: 3*
- • POSC 314 - State and Local Politics and Government *Units: 3*
- • POSC 315 - Urban Politics *Units: 3*
- • POSC 316 - Politics of California *Units: 3*
- • POSC 330 - Voting and Public Opinion *Units: 3*
- • POSC 331 - Political Parties and Campaigning *Units: 3*
- • POSC 332 - Citizen Action *Units: 3*
- • POSC 333 - Practical Politics *Units: 3*
- • POSC 334 - Interest Groups, Lobbying, and Political Reform *Units: 3*
- • POSC 335 - Women and Politics *Units: 3*
- • POSC 336 - Ethnic and Minority Politics *Units: 3*
- • POSC 337 - African American Politics *Units: 3*
- • POSC 338 - Asian American Politics *Units: 3*

Political Science: Comparative Government and Politics

- • POSC 321 - Political Systems of Western Europe *Units: 3 ; G.E./G.R. Area: D4*
- • POSC 322 - Government and Politics of Eastern and Central Europe *Units: 3 ; G.E./G.R. Area: D4*
- • POSC 323 - Political Systems of Asia *Units: 3 ; G.E./G.R. Area: D4*

- • POSC 324 - Government and Politics in the Middle East *Units: 3*
- • POSC 326 - Government and Politics of Africa South of the Sahara *Units: 3 ; G.E./G.R. Area: D4*
- • POSC 327 - Political Systems of Latin America *Units: 3 ; G.E./G.R. Area: D4*
- • POSC 347 - Comparative Law *Units: 3*

Political Science: International Relations

- • POSC 350 - World Problems and Global Response *Units: 3 ; G.E./G.R. Area: D4*
- • POSC 351 - International Relations *Units: 3 ; G.E./G.R. Area: D4*
- • POSC 352 - International Security in the 21st Century *Units: 3 ; G.E./G.R. Area: D4*
- • POSC 353 - Politics of the Global Economy *Units: 3*
- • POSC 354 - American Foreign Policy *Units: 3 ; G.E./G.R. Area: D4*
- • POSC 355 - The United Nations and World Community *Units: 3 ; G.E./G.R. Area: D4*

Political Science: Political Theory

- • POSC 371 - Greek, Roman and Medieval Political Thought *Units: 3*
- • POSC 373 - Contemporary Political Thought *Units: 3*
- • POSC 374 - Marxism in Theory and Practice *Units: 3*
- • POSC 375 - Theories of Empire *Units: 3*

Political Science: Public Law

- • POSC 340 - Law and Society *Units: 3 ; G.E./G.R. Area: C4*
- • POSC 341 - American Constitutional Law: Government *Units: 3*
- • POSC 342 - American Constitutional Law: Rights *Units: 3*
- • POSC 343 - Survey of American Law *Units: 3*
- • POSC 344 - Environmental Law *Units: 3*
- • POSC 345 - International Law *Units: 3 ; G.E./G.R. Area: D4*
- • POSC 377 - Philosophy of Law *Units: 3 ; G.E./G.R. Area: C4; Social Justice*

Political Science: Public Policy and Administration

- • POSC 380 - Public Policy Analysis *Units: 3*
- • POSC 382 - U.S. Immigration Policy and Law *Units: 3*
- • POSC 383 - Labor Policy and Law *Units: 3*
- • POSC 410 - Politics of Budgeting *Units: 3*
- • POSC 411 - Public Policy and the Environment *Units: 3*
- • POSC 412 - Bureaucratic Politics and Administrative Law *Units: 3*

Political Science, B.A.: Traditional Political Science Concentration

Political Science, B.A. Program (120 units)

Program Description

The political science curriculum helps students to acquire an organized body of knowledge about government and to think analytically about public policy, law, and politics. The political science degree prepares graduates to enter careers in government, public service, public administration, public policy analysis, legislative advocacy, business, international relations, and teaching. Many Cal State East Bay political science graduates continue their academic careers in law school, or in the pursuit of graduate degrees in political science or public policy analysis.

Program Learning Outcomes

Students graduating with a B.A. in Political Science will be able to:

- develop and articulate an understanding of democratic theory and practice and gain practical experience in politics, public policy, and civic engagement.
- demonstrate through oral and written competency, an understanding of the theories, concepts, empirical content, and research agendas of the fields of political science with advanced understanding in the selected option.
- demonstrate an understanding of political culture in the U.S. and around the world including the economic, ideological, ethnic and cultural groups and movements that engage the political process.
- articulate career goals, demonstrate knowledge of how to achieve those goals, and produce evidence of working to achieve the goals.
- demonstrate the ability to apply knowledge through collaborative learning and teamwork.

Career Opportunities

Administrative Assistant • Attorney • Campaign Aide/Manager • Diplomat • FBI/CIA Agent • Foreign Service Officer • International Relations Specialist • Journalist • Labor Organizer/Union Representative • Law Clerk • Legislative Advocate/Lobbyist • Legislative Aide • Paralegal • Legal Assistant • Police Officer • Politician • Polling Specialist • Private Investigator • Public Administrator • Public Information Officer • Research Specialist • Secret Service Agent • Teacher

Features

The political science major offers a Pre-Law option for students planning a career in law. The Political Science department offers a major and a minor. Special features of the Political Science major include: the Intercollegiate Model United Nations Club; field trips to Sacramento and to State and Federal courts; guest political speakers; pre-law advising; local, Sacramento, Washington, and political campaign internships; and the Political Science Club.

Preparation

For Advanced Placement course equivalencies, see Registration.

Degree Requirements Unit-Outline

- A baccalaureate of arts degree requires a total of 120 units:
- The major requirements consists of 39 units
- General Education & Graduation Requirements consists of 57 units;
- Free Electives may consist of 24 units (*actual number of free elective units may depend on GE/GR units*).

Note: It may be possible to double-count units within the graduation requirements or that a course may satisfy both a graduation requirement and a major requirement. Students should contact their program and AACE advisors for information.

Political Science Major Requirements (39 units)

Core Coursework

Please consult an advisor in your major department for clarification and interpretation of your major requirements. In addition to the Core Requirements, students must choose one (1) of three concentrations for 12-units to complete the major.

The Core Requirement consists of 27 units as outlined below:

The following 9 units are required:

- POSC 101 - American Political Institutions *Units: 3 ; G.E./G.R. Area: D1-3; US-1, US-2*
- POSC 102 - Public Policy/California Politics *Units: 3 ; G.E./G.R. Area: D1-3; US-1, US-3*
- POSC 300 - The Study of Political Science *Units: 3*

Complete two (2) upper-division courses for 6 units from either the *American Government and Politics* area or the *Public Policy and Administration* area:

American Government and Politics

- POSC 311 - The American Presidency *Units: 3*
- POSC 312 - United States Congress *Units: 3*
- POSC 314 - State and Local Politics and Government *Units: 3*
- POSC 315 - Urban Politics *Units: 3*
- POSC 316 - Politics of California *Units: 3*
- POSC 330 - Voting and Public Opinion *Units: 3*
- POSC 331 - Political Parties and Campaigning *Units: 3*
- POSC 333 - Practical Politics *Units: 3*
- POSC 334 - Interest Groups, Lobbying, and Political Reform *Units: 3*
- POSC 335 - Women and Politics *Units: 3*
- POSC 336 - Ethnic and Minority Politics *Units: 3*
- POSC 337 - African American Politics *Units: 3*
- POSC 338 - Asian American Politics *Units: 3*
- POSC 495 - Political Internship *Units: 1-3*

Public Policy and Administration

- POSC 380 - Public Policy Analysis *Units: 3*
- POSC 383 - Labor Policy and Law *Units: 3*
- POSC 410 - Politics of Budgeting *Units: 3*
- POSC 411 - Public Policy and the Environment *Units: 3*
- POSC 412 - Bureaucratic Politics and Administrative Law *Units: 3*

Complete one (1) course in EACH of the three areas below for 9 units. Students may also substitute an advisor-approved lower-division course for these areas:

Comparative Government and Politics

- POSC 321 - Political Systems of Western Europe *Units: 3 ; G.E./G.R. Area: D4*
- POSC 323 - Political Systems of Asia *Units: 3 ; G.E./G.R. Area: D4*
- POSC 324 - Government and Politics in the Middle East *Units: 3*
- POSC 326 - Government and Politics of Africa South of the Sahara *Units: 3 ; G.E./G.R. Area: D4*

- POSC 327 - Political Systems of Latin America *Units: 3 ; G.E./G.R. Area: D4*
- POSC 347 - Comparative Law *Units: 3*

International Relations

- POSC 350 - World Problems and Global Response *Units: 3 ; G.E./G.R. Area: D4*
- POSC 351 - International Relations *Units: 3 ; G.E./G.R. Area: D4*
- POSC 352 - International Security in the 21st Century *Units: 3 ; G.E./G.R. Area: D4*
- POSC 353 - Politics of the Global Economy *Units: 3*
- POSC 354 - American Foreign Policy *Units: 3 ; G.E./G.R. Area: D4*
- POSC 355 - The United Nations and World Community *Units: 3 ; G.E./G.R. Area: D4*

Political Theory

- POSC 371 - Greek, Roman and Medieval Political Thought *Units: 3*
- POSC 373 - Contemporary Political Thought *Units: 3*
- POSC 374 - Marxism in Theory and Practice *Units: 3*
- POSC 375 - Theories of Empire *Units: 3*

Concentrations

Students must choose one (1) concentration for 12 units below as part of the major requirements:

- Political Science, B.A.: Pre-Law Concentration
- Political Science, B.A.: Public Affairs and Administration Concentration
- Political Science, B.A.: Traditional Political Science Concentration

Capstone Requirement

Students must complete the following capstone experience for 3 units to complete the major:

- POSC 499 - Capstone *Units: 3*

Traditional Political Science Concentration

Public Law Coursework

Complete one (1) course that has NOT already been taken from the following (3 units):

- POSC 340 - Law and Society *Units: 3 ; G.E./G.R. Area: C4*
- POSC 341 - American Constitutional Law: Government *Units: 3*
- POSC 342 - American Constitutional Law: Rights *Units: 3*
- POSC 343 - Survey of American Law *Units: 3*
- POSC 344 - Environmental Law *Units: 3*
- POSC 345 - International Law *Units: 3 ; G.E./G.R. Area: D4*
- POSC 412 - Bureaucratic Politics and Administrative Law *Units: 3*

Elective Courses

Complete an additional 9 units from either the following upper-division courses OR any upper-division course NOT already taken from other area requirements above:

- POSC 382 - U.S. Immigration Policy and Law *Units: 3*
- POSC 490 - Independent Study *Units: 1-3*
- POSC 497 - Issues in Political Science *Units: 3*
- POSC 332 - Citizen Action *Units: 3*
- POSC 498 - Internship *Units: 1-3*

Other Undergraduate Degree Requirements

In addition to major requirements, every student must also complete the University's baccalaureate requirements for graduation, which are described in the Requirements, Exams & Testing chapter of this catalog.

Department Courses Listed by Course Type

Political Science Courses

Department of Political Science

Go to information for this department.

Courses

Political Science

- • POSC 100 - Introduction to Political Science *Units: 3*
- • POSC 101 - American Political Institutions *Units: 3 ; G.E./G.R. Area: D1-3; US-1, US-2*
- • POSC 117 - Environmental Politics *Units: 3*
- • POSC 150 - Conflict in World Politics *Units: 3 ; G.E./G.R. Area: D1-3*
- • POSC 300 - The Study of Political Science *Units: 3*
- • POSC 490 - Independent Study *Units: 1-3*
- • POSC 495 - Political Internship *Units: 1-3*
- • POSC 497 - Issues in Political Science *Units: 3*
- • POSC 498 - Internship *Units: 1-3*
- • POSC 499 - Capstone *Units: 3*

Political Science: American Government and Politics

- • POSC 102 - Public Policy/California Politics *Units: 3 ; G.E./G.R. Area: D1-3; US-1, US-3*
- • POSC 311 - The American Presidency *Units: 3*
- • POSC 312 - United States Congress *Units: 3*
- • POSC 314 - State and Local Politics and Government *Units: 3*
- • POSC 315 - Urban Politics *Units: 3*
- • POSC 316 - Politics of California *Units: 3*
- • POSC 330 - Voting and Public Opinion *Units: 3*
- • POSC 331 - Political Parties and Campaigning *Units: 3*

- • POSC 332 - Citizen Action *Units: 3*
- • POSC 333 - Practical Politics *Units: 3*
- • POSC 334 - Interest Groups, Lobbying, and Political Reform *Units: 3*
- • POSC 335 - Women and Politics *Units: 3*
- • POSC 336 - Ethnic and Minority Politics *Units: 3*
- • POSC 337 - African American Politics *Units: 3*
- • POSC 338 - Asian American Politics *Units: 3*

Political Science: Comparative Government and Politics

- • POSC 321 - Political Systems of Western Europe *Units: 3 ; G.E./G.R. Area: D4*
- • POSC 322 - Government and Politics of Eastern and Central Europe *Units: 3 ; G.E./G.R. Area: D4*
- • POSC 323 - Political Systems of Asia *Units: 3 ; G.E./G.R. Area: D4*
- • POSC 324 - Government and Politics in the Middle East *Units: 3*
- • POSC 326 - Government and Politics of Africa South of the Sahara *Units: 3 ; G.E./G.R. Area: D4*
- • POSC 327 - Political Systems of Latin America *Units: 3 ; G.E./G.R. Area: D4*
- • POSC 347 - Comparative Law *Units: 3*

Political Science: International Relations

- • POSC 350 - World Problems and Global Response *Units: 3 ; G.E./G.R. Area: D4*
- • POSC 351 - International Relations *Units: 3 ; G.E./G.R. Area: D4*
- • POSC 352 - International Security in the 21st Century *Units: 3 ; G.E./G.R. Area: D4*
- • POSC 353 - Politics of the Global Economy *Units: 3*
- • POSC 354 - American Foreign Policy *Units: 3 ; G.E./G.R. Area: D4*
- • POSC 355 - The United Nations and World Community *Units: 3 ; G.E./G.R. Area: D4*

Political Science: Political Theory

- • POSC 371 - Greek, Roman and Medieval Political Thought *Units: 3*
- • POSC 373 - Contemporary Political Thought *Units: 3*
- • POSC 374 - Marxism in Theory and Practice *Units: 3*
- • POSC 375 - Theories of Empire *Units: 3*

Political Science: Public Law

- • POSC 340 - Law and Society *Units: 3 ; G.E./G.R. Area: C4*
- • POSC 341 - American Constitutional Law: Government *Units: 3*
- • POSC 342 - American Constitutional Law: Rights *Units: 3*
- • POSC 343 - Survey of American Law *Units: 3*
- • POSC 344 - Environmental Law *Units: 3*
- • POSC 345 - International Law *Units: 3 ; G.E./G.R. Area: D4*
- • POSC 377 - Philosophy of Law *Units: 3 ; G.E./G.R. Area: C4; Social Justice*

Political Science: Public Policy and Administration

- • POSC 380 - Public Policy Analysis *Units: 3*
- • POSC 382 - U.S. Immigration Policy and Law *Units: 3*
- • POSC 383 - Labor Policy and Law *Units: 3*
- • POSC 410 - Politics of Budgeting *Units: 3*
- • POSC 411 - Public Policy and the Environment *Units: 3*
- • POSC 412 - Bureaucratic Politics and Administrative Law *Units: 3*

Minor

Political Science Minor

Minor Requirements (18 units)

The minor consists of 18 units of Political Science courses of which at least 12 units must be upper-division. The purpose of the Minor in Political Science is to provide a general background in political science to complement majors in such areas as business administration, environmental studies, science, humanities, and the other social sciences. The student must consult with a Political Science department advisor or chairperson in selecting courses.

Department Courses Listed by Course Type

Political Science Courses

Department of Political Science

Go to information for this department.

Courses

Political Science

- • POSC 100 - Introduction to Political Science *Units: 3*
- • POSC 101 - American Political Institutions *Units: 3 ; G.E./G.R. Area: D1-3; US-1, US-2*
- • POSC 117 - Environmental Politics *Units: 3*
- • POSC 150 - Conflict in World Politics *Units: 3 ; G.E./G.R. Area: D1-3*
- • POSC 300 - The Study of Political Science *Units: 3*
- • POSC 490 - Independent Study *Units: 1-3*
- • POSC 495 - Political Internship *Units: 1-3*
- • POSC 497 - Issues in Political Science *Units: 3*
- • POSC 498 - Internship *Units: 1-3*
- • POSC 499 - Capstone *Units: 3*

Political Science: American Government and Politics

- • POSC 102 - Public Policy/California Politics *Units: 3 ; G.E./G.R. Area: D1-3; US-1, US-3*
- • POSC 311 - The American Presidency *Units: 3*
- • POSC 312 - United States Congress *Units: 3*
- • POSC 314 - State and Local Politics and Government *Units: 3*
- • POSC 315 - Urban Politics *Units: 3*
- • POSC 316 - Politics of California *Units: 3*
- • POSC 330 - Voting and Public Opinion *Units: 3*
- • POSC 331 - Political Parties and Campaigning *Units: 3*
- • POSC 332 - Citizen Action *Units: 3*
- • POSC 333 - Practical Politics *Units: 3*
- • POSC 334 - Interest Groups, Lobbying, and Political Reform *Units: 3*

- • POSC 335 - Women and Politics *Units: 3*
- • POSC 336 - Ethnic and Minority Politics *Units: 3*
- • POSC 337 - African American Politics *Units: 3*
- • POSC 338 - Asian American Politics *Units: 3*

Political Science: Comparative Government and Politics

- • POSC 321 - Political Systems of Western Europe *Units: 3 ; G.E./G.R. Area: D4*
- • POSC 322 - Government and Politics of Eastern and Central Europe *Units: 3 ; G.E./G.R. Area: D4*
- • POSC 323 - Political Systems of Asia *Units: 3 ; G.E./G.R. Area: D4*
- • POSC 324 - Government and Politics in the Middle East *Units: 3*
- • POSC 326 - Government and Politics of Africa South of the Sahara *Units: 3 ; G.E./G.R. Area: D4*
- • POSC 327 - Political Systems of Latin America *Units: 3 ; G.E./G.R. Area: D4*
- • POSC 347 - Comparative Law *Units: 3*

Political Science: International Relations

- • POSC 350 - World Problems and Global Response *Units: 3 ; G.E./G.R. Area: D4*
- • POSC 351 - International Relations *Units: 3 ; G.E./G.R. Area: D4*
- • POSC 352 - International Security in the 21st Century *Units: 3 ; G.E./G.R. Area: D4*
- • POSC 353 - Politics of the Global Economy *Units: 3*
- • POSC 354 - American Foreign Policy *Units: 3 ; G.E./G.R. Area: D4*
- • POSC 355 - The United Nations and World Community *Units: 3 ; G.E./G.R. Area: D4*

Political Science: Political Theory

- • POSC 371 - Greek, Roman and Medieval Political Thought *Units: 3*
- • POSC 373 - Contemporary Political Thought *Units: 3*
- • POSC 374 - Marxism in Theory and Practice *Units: 3*
- • POSC 375 - Theories of Empire *Units: 3*

Political Science: Public Law

- • POSC 340 - Law and Society *Units: 3 ; G.E./G.R. Area: C4*
- • POSC 341 - American Constitutional Law: Government *Units: 3*
- • POSC 342 - American Constitutional Law: Rights *Units: 3*
- • POSC 343 - Survey of American Law *Units: 3*
- • POSC 344 - Environmental Law *Units: 3*
- • POSC 345 - International Law *Units: 3 ; G.E./G.R. Area: D4*
- • POSC 377 - Philosophy of Law *Units: 3 ; G.E./G.R. Area: C4; Social Justice*

Political Science: Public Policy and Administration

- • POSC 380 - Public Policy Analysis *Units: 3*
- • POSC 382 - U.S. Immigration Policy and Law *Units: 3*
- • POSC 383 - Labor Policy and Law *Units: 3*
- • POSC 410 - Politics of Budgeting *Units: 3*
- • POSC 411 - Public Policy and the Environment *Units: 3*
- • POSC 412 - Bureaucratic Politics and Administrative Law *Units: 3*

Department of Psychology

The Department Office is located on the 2nd Floor of the South Science (SC-S) building, Room 229

Open 8:30 a.m. - 5:00 p.m., Monday - Friday

Dept. Phone: (510) 885-3484

Faculty

Professors Emeriti

John D. Lovell, Ph.D. University of California, Los Angeles

Mary Kay Stevenson, Ph.D. University of South Carolina, Columbia

Professors

Dong-Won Choi, Ph.D. University of Illinois, Urbana-Champaign

Marvin R. Lamb, Ph.D. University of California, Berkeley

David A. Sandberg, Ph.D. Ohio University

Associate Professors

Emily Cleveland, Ph.D. Clark University

David Fencsik (Chair), Ph.D. University of Michigan

Assistant Professors

Brian Gonsalves, Ph.D. Northwestern University

Murray Horne, Ph.D. Cardiff University (United Kingdom)

Kristin Layous, Ph.D. University of California, Riverside

Jeri Little, Ph.D. University of California, Los Angeles

Amanda Morrison, Ph.D. Temple University

Negin Toosi, Ph.D. Tufts University

Department Statement

Psychology is the science of behavior and mental processes. Many psychologists work with people to understand how they think, respond to stress, learn and forget, develop into unique personalities, and interact with one another. Others study the behavior and nervous systems of animals in order to find general principles that apply across species. Psychologists apply their knowledge to do therapy and counseling, to improve practices in schools, prisons, and rehabilitation centers, and to enhance performance in industry, business, and the professions. Careers in psychology are already plentiful and fulfilling, and the field is one of the fastest growing in the world.

About the Department

Use these website links to learn more about what the Psychology Department has to offer.

- Psychology Department Website: <http://www.csueastbay.edu/psychology/index.html>
- Advising: <http://www.csueastbay.edu/psychology/academic-advising/>
- Faculty Office Hours: <http://www.csueastbay.edu/psychology/office-hours.html>

Bachelor

Psychology, B.A.

Psychology, B.A./B.S. Programs (120 units)

Program Description

Psychology is the science of behavior and mental processes. Many psychologists work primarily with people to understand how they think, respond to stress, learn and forget, develop into unique personalities, and interact with one another. Others study the behavior and nervous systems of animals in order to find general principles that apply across species. Psychologists apply their knowledge to do therapy and counseling, to improve practices in schools, prisons, and rehabilitation centers, and to enhance performance in industrial and business settings.

The Psychology Department offers a major in both the Bachelor of Arts (B.A.) and the Bachelor of Science (B.S.) degrees. These are basic programs; to become a "psychologist" requires graduate training.

The B.A. program is appropriate for most psychology students. It provides a basic understanding of human behavior and motivation that is valuable in many careers in business, government, and education. It also provides the background expected for entry into graduate programs in clinical psychology, counseling psychology, school psychology, health psychology, social psychology, or experimental psychology.

The B.S. programs are designed for more specialized purposes. Students in the B.S. program must select one of the two concentrations in that program: Industrial/Organizational Psychology or Ergonomics and Human Factors. The concentration in Industrial/Organizational Psychology provides preparation for careers related to business, with an emphasis on personnel management. The concentration in Ergonomics and Human Factors provides preparation for careers in the design of work environments to take account of human limitations and strengths, for example, the design of equipment (computers, aircraft, automobiles) or the design of industrial procedures.

In Psychology's minor program, students can choose courses to complement training in business, communication, health and medicine, law and criminology, statistics, biology, and many other fields. Of special interest to students in that program might be our courses in developmental psychology, personality, cognitive processes, and learning.

Program Learning Outcomes

Students graduating with a B.A. or B.S. in Psychology will be able to:

- Identify key concepts, principles, and applications of psychology's content domains.
- Apply scientific reasoning to interpret psychological phenomena and to design and conduct basic psychological research.
- Evaluate the ethics of psychological science and practice.
- Demonstrate effective communication skills.
- Describe career options within psychology.

Career Opportunities

Bachelor of Arts:

Clinical/Counseling/Child Psychologist • Community Mental Health Employee • Experimental Psychologist • Human Service Worker • Police/Probation Officer • Recreation Worker • School Counselor • Social Worker • Special Education Teacher • Substance Abuse Counselor

Bachelor of Science:

Advertising Account Executive • Business Executive • Career Counselor • Employee Counselor and Trainer • Human Resource Specialist • Personnel Representative • Program Evaluator • Public Relations Specialist

Features

The Psychology Department's facilities include a fully equipped computer lab, an animal lab, and several labs for studying human behavior. These facilities support an unusual and important characteristic of the department - its emphasis on hands-on student involvement in the study of human and animal behavior through participation in laboratory courses and faculty research, in field trips, and in community volunteer placements.

Both the Psychology Club and Psi Chi (national honor society in psychology) provide opportunities for students to get together to hear speakers and to discuss topics such as career and graduate school opportunities.

All courses required for the Psychology B.A. major are offered in the evening program, both at the Hayward and Concord campuses, over a two-year period. However, the range of choices and flexibility of scheduling is more limited in the evening program.

Advising

Psychology students are encouraged to visit a major advisor when they begin taking classes at CSUEB.

Major advising is handled by the full-time faculty in the department. Students may visit any advisor; advisors are not assigned, and students do not need to select one. Office hours and locations are available on the department website and in the department office.

Preparation

For Advanced Placement course equivalencies, see Registration.

Degree Requirements Units-Outline

- A baccalaureate of arts or science degree requires a total of 120 units;
- The Psychology (BA) major requirements consists of 52 units
- The Psychology (BS) major requirements consists of 55-64 units;
- General Education (GE) & Graduation Requirements (GR) consists of 57 units;
- Free Electives may consist of 11 units (BA) or 2-8 units (BS); (*actual number of free elective units may depend on GE/GR units*).

Note: It may be possible to double-count units within the graduation requirements or that a course may satisfy both a graduation requirement and a major requirement. Students should contact their program and AACE advisors for information.

Psychology (BA) Major Requirements (52 units)

Core Requirement

The following 28 units of interdisciplinary core coursework are required:

- BIOL 101 - Introduction to Biology *Units: 3 ; G.E./G.R. Area: B2*
- BIOL 102 - Introduction to Biology Lab *Units: 1 ; G.E./G.R. Area: B3*
- PSYC 100 - General Psychology *Units: 3 ; G.E./G.R. Area: D1-3*
- PSYC 200 - Methods of Investigation in Psychology *Units: 3*
- PSYC 300 - Experimental Psychology *Units: 4*
- PSYC 310 - Conditioning and Learning *Units: 4*
- PSYC 320 - Physiological Psychology *Units: 4*
- STAT 100 - Elements of Statistics and Probability *Units: 3 ; G.E./G.R. Area: B4*
- STAT 310 - Statistical Methods in the Social Sciences *Units: 3*

Psychology Content Requirements

Choose one (1) from each group for 8 units:

- PSYC 330 - Cognitive Psychology *Units: 4*
- *OR* PSYC 340 - Developmental Psychology *Units: 4*
- PSYC 350 - Personality Psychology *Units: 4*
- *OR* PSYC 360 - Social Psychology *Units: 4*

Advanced Topics Requirement

Take 12 additional units of upper-division PSYC courses, not including courses beginning with PSYC 491 or PSYC 493, or those marked "Not for psychology major or minor credit" in the catalog. See all Psychology courses by Course Types below.

Advanced Lab Requirement

Take one (1) of the following lab courses for 4 units:

- PSYC 491A - Research in Conditioning and Learning *Units: 4*

- PSYC 491B - Research in Physiological Psychology *Units: 4*
- PSYC 491C - Research in Cognitive Psychology *Units: 4*
- PSYC 491D - Research in Developmental Psychology *Units: 4*
- PSYC 491E - Research in Social & Personality Psychology *Units: 4*
- PSYC 491F - Research in Clinical Psychology *Units: 4*
- PSYC 493A - Research in Organizational Psychology *Units: 4*
- PSYC 493B - Research in Industrial Psychology *Units: 4*

Other Undergraduate Degree Requirements

In addition to major requirements, every student must also complete the University's baccalaureate requirements for graduation, which are described in the Requirements, Exams & Testing chapter of this catalog.

Department Courses Listed by Course Type

Psychology Courses

Department of Psychology

Go to information for this department.

Courses

Psychology

- • PSYC 100 - General Psychology *Units: 3 ; G.E./G.R. Area: D1-3*
- • PSYC 121 - Drugs and Behavior *Units: 3 ; G.E./G.R. Area: B2*
- • PSYC 200 - Methods of Investigation in Psychology *Units: 3*
- • PSYC 300 - Experimental Psychology *Units: 4*
- • PSYC 310 - Conditioning and Learning *Units: 4*
- • PSYC 320 - Physiological Psychology *Units: 4*
- • PSYC 330 - Cognitive Psychology *Units: 4*
- • PSYC 340 - Developmental Psychology *Units: 4*
- • PSYC 350 - Personality Psychology *Units: 4*
- • PSYC 360 - Social Psychology *Units: 4*
- • PSYC 370 - Psychological Measurement *Units: 4*
- • PSYC 381 - Psychopathology *Units: 4*
- • PSYC 382 - Child Psychopathology *Units: 4*
- • PSYC 386 - Stress and Coping *Units: 3 ; G.E./G.R. Area: B6*
- • PSYC 390 - Human Factors and Work Methods *Units: 4*
- • PSYC 411 - Comparative Psychology *Units: 4*
- • PSYC 412 - Learning Theory *Units: 4*
- • PSYC 413 - Advanced Conditioning and Learning *Units: 4*
- • PSYC 414 - History and Systems of Psychology *Units: 4*
- • PSYC 415 - Introduction to Applied Behavior Analysis *Units: 4*

- • PSYC 421 - Cognitive Neuroscience *Units: 4*
- • PSYC 431 - Perception *Units: 4*
- • PSYC 441 - Advanced Developmental Psychology *Units: 4*
- • PSYC 461 - Culture and Social-Organizational Psychology *Units: 4*
- • PSYC 462 - Psychology of Negotiation and Conflict Resolution *Units: 4*
- • PSYC 463 - Interpersonal Processes *Units: 4*
- • PSYC 469 - Group Dynamics *Units: 4*
- • PSYC 471 - Decision Theory and Analysis *Units: 4*
- • PSYC 472 - Motivation *Units: 4*
- • PSYC 479 - Industrial Psychology *Units: 4*
- • PSYC 481 - Introduction to Psychotherapy *Units: 4*
- • PSYC 490 - Independent Study *Units: 1-4*
- • PSYC 491A - Research in Conditioning and Learning *Units: 4*
- • PSYC 491B - Research in Physiological Psychology *Units: 4*
- • PSYC 491C - Research in Cognitive Psychology *Units: 4*
- • PSYC 491D - Research in Developmental Psychology *Units: 4*
- • PSYC 491E - Research in Social & Personality Psychology *Units: 4*
- • PSYC 491F - Research in Clinical Psychology *Units: 4*
- • PSYC 493A - Research in Organizational Psychology *Units: 4*
- • PSYC 493B - Research in Industrial Psychology *Units: 4*
- • PSYC 497 - Issues in Psychology *Units: 4*
- • PSYC 498 - Internship *Units: 1-4*

Psychology, B.S.: Ergonomics and Human Factors Concentration

Psychology, B.A./B.S. Programs (120 units)

Program Description

Psychology is the science of behavior and mental processes. Many psychologists work primarily with people to understand how they think, respond to stress, learn and forget, develop into unique personalities, and interact with one another. Others study the behavior and nervous systems of animals in order to find general principles that apply across species. Psychologists apply their knowledge to do therapy and counseling, to improve practices in schools, prisons, and rehabilitation centers, and to enhance performance in industrial and business settings.

The Psychology Department offers a major in both the Bachelor of Arts (B.A.) and the Bachelor of Science (B.S.) degrees. These are basic programs; to become a "psychologist" requires graduate training.

The B.A. program is appropriate for most psychology students. It provides a basic understanding of human behavior and motivation that is valuable in many careers in business, government, and education. It also provides the background expected for entry into graduate programs in clinical psychology, counseling psychology, school psychology, health psychology, social psychology, or experimental psychology.

The B.S. programs are designed for more specialized purposes. Students in the B.S. program must select one of the two concentrations in that program: Industrial/Organizational Psychology or Ergonomics and Human Factors. The concentration in Industrial/Organizational Psychology provides preparation for careers related to business, with an emphasis on personnel management. The concentration in Ergonomics

and Human Factors provides preparation for careers in the design of work environments to take account of human limitations and strengths, for example, the design of equipment (computers, aircraft, automobiles) or the design of industrial procedures.

In Psychology's minor program, students can choose courses to complement training in business, communication, health and medicine, law and criminology, statistics, biology, and many other fields. Of special interest to students in that program might be our courses in developmental psychology, personality, cognitive processes, and learning.

Program Learning Outcomes

Students graduating with a B.A. or B.S. in Psychology will be able to:

- Identify key concepts, principles, and applications of psychology's content domains.
- Apply scientific reasoning to interpret psychological phenomena and to design and conduct basic psychological research.
- Evaluate the ethics of psychological science and practice.
- Demonstrate effective communication skills.
- Describe career options within psychology.

Career Opportunities

Bachelor of Arts:

Clinical/Counseling/Child Psychologist • Community Mental Health Employee • Experimental Psychologist • Human Service Worker • Police/Probation Officer • Recreation Worker • School Counselor • Social Worker • Special Education Teacher • Substance Abuse Counselor

Bachelor of Science:

Advertising Account Executive • Business Executive • Career Counselor • Employee Counselor and Trainer • Human Resource Specialist • Personnel Representative • Program Evaluator • Public Relations Specialist

Features

The Psychology Department's facilities include a fully equipped computer lab, an animal lab, and several labs for studying human behavior. These facilities support an unusual and important characteristic of the department - its emphasis on hands-on student involvement in the study of human and animal behavior through participation in laboratory courses and faculty research, in field trips, and in community volunteer placements.

Both the Psychology Club and Psi Chi (national honor society in psychology) provide opportunities for students to get together to hear speakers and to discuss topics such as career and graduate school opportunities.

All courses required for the Psychology B.A. major are offered in the evening program, both at the Hayward and Concord campuses, over a two-year period. However, the range of choices and flexibility of scheduling is more limited in the evening program.

Advising

Psychology students are encouraged to visit a major advisor when they begin taking classes at CSUEB.

Major advising is handled by the full-time faculty in the department. Students may visit any advisor; advisors are not assigned, and students do not need to select one. Office hours and locations are available on the department website and in the department office.

Preparation

For Advanced Placement course equivalencies, see Registration.

Degree Requirements Units-Outline

- A baccalaureate of arts or science degree requires a total of 120 units:
- The Psychology (BA) major requirements consists of 52 units
- The Psychology (BS) major requirements consists of 55-64 units;
- General Education (GE) & Graduation Requirements (GR) consists of 57 units;
- Free Electives may consist of 11 units (BA) or 2-8 units (BS); (*actual number of free elective units may depend on GE/GR units*).

Note: It may be possible to double-count units within the graduation requirements or that a course may satisfy both a graduation requirement and a major requirement. Students should contact their program and AACE advisors for information.

Psychology, B.S. Major Requirements (55-64 units)

Core Requirement

Complete the following 28 units:

- PSYC 100 - General Psychology Units: 3 ; G.E./G.R. Area: D1-3
- PSYC 200 - Methods of Investigation in Psychology Units: 3
- PSYC 300 - Experimental Psychology Units: 4
- PSYC 310 - Conditioning and Learning Units: 4
- PSYC 330 - Cognitive Psychology Units: 4
- PSYC 360 - Social Psychology Units: 4
- STAT 100 - Elements of Statistics and Probability Units: 3 ; G.E./G.R. Area: B4
- STAT 310 - Statistical Methods in the Social Sciences Units: 3

Advanced Lab Requirement

Plus, take one (1) of the following courses for 4 units:

- PSYC 491A - Research in Conditioning and Learning Units: 4
- PSYC 491B - Research in Physiological Psychology Units: 4
- PSYC 491C - Research in Cognitive Psychology Units: 4
- PSYC 491D - Research in Developmental Psychology Units: 4
- PSYC 491E - Research in Social & Personality Psychology Units: 4
- PSYC 491F - Research in Clinical Psychology Units: 4

- PSYC 493A - Research in Organizational Psychology *Units: 4*
- PSYC 493B - Research in Industrial Psychology *Units: 4*

Concentration Requirement

Students must select a concentration to complete the major for 23-32 units:

- Psychology, B.S.: Ergonomics and Human Factors Concentration
- Psychology, B.S.: Industrial/Organizational Psychology Concentration

Ergonomics and Human Factors Concentration

The Ergonomics and Human Factors concentration requirements completing 29-32 units.

Note: Students completing the Ergonomics and Human Factors Concentration can take STAT 330 and 331 instead of STAT 100 and 310, and may use those courses to satisfy the STAT 310 prerequisite of PSYC 300.

Lower Division Coursework

The following 11-12 units of lower-division coursework is required:

Computer Science Requirement

Take one (1) of the following courses:

- CS 100 - Programming for Everyone *Units: 3*
- CS 101 - Computer Science I *Units: 4*

Physics Requirement

Take one (1) group of the two:

- PHYS 125 - Principles of Physics I *Units: 4 ; G.E./G.R. Area: B1, B3*
- PHYS 126 - Principles of Physics II *Units: 4 ; G.E./G.R. Area: B1, B3*

OR

- PHYS 135 - Physics for Scientists and Engineers I *Units: 4 ; G.E./G.R. Area: B1, B3*
- PHYS 136 - Physics for Scientists and Engineers II *Units: 4*

Note: PHYS 125 requires MATH 120 (Precalculus), which students can test out of. PHYS 135 requires MATH 130 (Calculus).

Upper Division Coursework

The following 12 units of upper-division is required:

- INDE 390 - Human Factors and Work Methods *Units: 4 ; G.E./G.R. Area: B6*
- PSYC 320 - Physiological Psychology *Units: 4*
- PSYC 431 - Perception *Units: 4*

Elective Courses

Complete any one of the following groups for 6-8 units:

Computer Science Group

- CS 200 Advanced Programming for Everyone *Units: 3 OR*
- CS 201 Computer Science II *Units:4*
- Plus, 3-4 additional units of CS Courses

Engineering Group

- 6-8 units of INDE courses

Mathematics Group

- MATH 130 Calculus I *Units:4*
- MATH 131 Calculus II *Units:4 (see Errata chapter for notice)*

Psychology Group

- 8 additional units of upper-division PSYC courses, not including courses beginning with PSYC 491 or 493, or those marked "Not for psychology major or minor credit" in the catalog.

Statistics Group

- 6-8 units of STAT courses

Other Undergraduate Degree Requirements

In addition to major requirements, every student must also complete the University's baccalaureate requirements for graduation, which are described in the Requirements, Exams & Testing chapter of this catalog.

Department Courses Listed by Course Type

Psychology Courses

Department of Psychology

Go to information for this department.

Courses

Psychology

- • PSYC 100 - General Psychology *Units: 3 ; G.E./G.R. Area: D1-3*
- • PSYC 121 - Drugs and Behavior *Units: 3 ; G.E./G.R. Area: B2*
- • PSYC 200 - Methods of Investigation in Psychology *Units: 3*
- • PSYC 300 - Experimental Psychology *Units: 4*
- • PSYC 310 - Conditioning and Learning *Units: 4*
- • PSYC 320 - Physiological Psychology *Units: 4*
- • PSYC 330 - Cognitive Psychology *Units: 4*
- • PSYC 340 - Developmental Psychology *Units: 4*
- • PSYC 350 - Personality Psychology *Units: 4*
- • PSYC 360 - Social Psychology *Units: 4*

- • PSYC 370 - Psychological Measurement *Units: 4*
- • PSYC 381 - Psychopathology *Units: 4*
- • PSYC 382 - Child Psychopathology *Units: 4*
- • PSYC 386 - Stress and Coping *Units: 3 ; G.E./G.R. Area: B6*
- • PSYC 390 - Human Factors and Work Methods *Units: 4*
- • PSYC 411 - Comparative Psychology *Units: 4*
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- • PSYC 431 - Perception *Units: 4*
- • PSYC 441 - Advanced Developmental Psychology *Units: 4*
- • PSYC 461 - Culture and Social-Organizational Psychology *Units: 4*
- • PSYC 462 - Psychology of Negotiation and Conflict Resolution *Units: 4*
- • PSYC 463 - Interpersonal Processes *Units: 4*
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- • PSYC 471 - Decision Theory and Analysis *Units: 4*
- • PSYC 472 - Motivation *Units: 4*
- • PSYC 479 - Industrial Psychology *Units: 4*
- • PSYC 481 - Introduction to Psychotherapy *Units: 4*
- • PSYC 490 - Independent Study *Units: 1-4*
- • PSYC 491A - Research in Conditioning and Learning *Units: 4*
- • PSYC 491B - Research in Physiological Psychology *Units: 4*
- • PSYC 491C - Research in Cognitive Psychology *Units: 4*
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- • PSYC 491E - Research in Social & Personality Psychology *Units: 4*
- • PSYC 491F - Research in Clinical Psychology *Units: 4*
- • PSYC 493A - Research in Organizational Psychology *Units: 4*
- • PSYC 493B - Research in Industrial Psychology *Units: 4*
- • PSYC 497 - Issues in Psychology *Units: 4*
- • PSYC 498 - Internship *Units: 1-4*

Psychology, B.S.: Industrial/Organizational Psychology Concentration

Psychology, B.A./B.S. Programs (120 units)

Program Description

Psychology is the science of behavior and mental processes. Many psychologists work primarily with people to understand how they think, respond to stress, learn and forget, develop into unique personalities, and interact with one another. Others study the behavior and nervous systems of animals in order to find general principles that apply across species. Psychologists apply their knowledge to do therapy and counseling, to improve practices in schools, prisons, and rehabilitation centers, and to enhance performance in industrial and business settings.

The Psychology Department offers a major in both the Bachelor of Arts (B.A.) and the Bachelor of Science (B.S.) degrees. These are basic programs; to become a "psychologist" requires graduate training.

The B.A. program is appropriate for most psychology students. It provides a basic understanding of human behavior and motivation that is valuable in many careers in business, government, and education. It also provides the background expected for entry into graduate programs in clinical psychology, counseling psychology, school psychology, health psychology, social psychology, or experimental psychology.

The B.S. programs are designed for more specialized purposes. Students in the B.S. program must select one of the two concentrations in that program: Industrial/Organizational Psychology or Ergonomics and Human Factors. The concentration in Industrial/Organizational Psychology provides preparation for careers related to business, with an emphasis on personnel management. The concentration in Ergonomics and Human Factors provides preparation for careers in the design of work environments to take account of human limitations and strengths, for example, the design of equipment (computers, aircraft, automobiles) or the design of industrial procedures.

In Psychology's minor program, students can choose courses to complement training in business, communication, health and medicine, law and criminology, statistics, biology, and many other fields. Of special interest to students in that program might be our courses in developmental psychology, personality, cognitive processes, and learning.

Program Learning Outcomes

Students graduating with a B.A. or B.S. in Psychology will be able to:

- Identify key concepts, principles, and applications of psychology's content domains.
- Apply scientific reasoning to interpret psychological phenomena and to design and conduct basic psychological research.
- Evaluate the ethics of psychological science and practice.
- Demonstrate effective communication skills.
- Describe career options within psychology.

Career Opportunities

Bachelor of Arts:

Clinical/Counseling/Child Psychologist • Community Mental Health Employee • Experimental Psychologist • Human Service Worker • Police/Probation Officer • Recreation Worker • School Counselor • Social Worker • Special Education Teacher • Substance Abuse Counselor

Bachelor of Science:

Advertising Account Executive • Business Executive • Career Counselor • Employee Counselor and Trainer • Human Resource Specialist • Personnel Representative • Program Evaluator • Public Relations Specialist

Features

The Psychology Department's facilities include a fully equipped computer lab, an animal lab, and several labs for studying human behavior. These facilities support an unusual and important characteristic of the department - its emphasis on hands-on student involvement in the study of human and animal behavior

through participation in laboratory courses and faculty research, in field trips, and in community volunteer placements.

Both the Psychology Club and Psi Chi (national honor society in psychology) provide opportunities for students to get together to hear speakers and to discuss topics such as career and graduate school opportunities.

All courses required for the Psychology B.A. major are offered in the evening program, both at the Hayward and Concord campuses, over a two-year period. However, the range of choices and flexibility of scheduling is more limited in the evening program.

Advising

Psychology students are encouraged to visit a major advisor when they begin taking classes at CSUEB.

Major advising is handled by the full-time faculty in the department. Students may visit any advisor; advisors are not assigned, and students do not need to select one. Office hours and locations are available on the department website and in the department office.

Preparation

For Advanced Placement course equivalencies, see Registration.

Degree Requirements Units-Outline

- A baccalaureate of arts or science degree requires a total of 120 units;
- The Psychology (BA) major requirements consists of 52 units
- The Psychology (BS) major requirements consists of 55-64 units;
- General Education (GE) & Graduation Requirements (GR) consists of 57 units;
- Free Electives may consist of 11 units (BA) or 2-8 units (BS); (*actual number of free elective units may depend on GE/GR units*).

Note: It may be possible to double-count units within the graduation requirements or that a course may satisfy both a graduation requirement and a major requirement. Students should contact their program and AACE advisors for information.

Psychology, B.S. Major Requirements (55-64 units)

Core Requirement

Complete the following 28 units:

- PSYC 100 - General Psychology Units: 3 ; G.E./G.R. Area: D1-3
- PSYC 200 - Methods of Investigation in Psychology Units: 3
- PSYC 300 - Experimental Psychology Units: 4
- PSYC 310 - Conditioning and Learning Units: 4
- PSYC 330 - Cognitive Psychology Units: 4
- PSYC 360 - Social Psychology Units: 4
- STAT 100 - Elements of Statistics and Probability Units: 3 ; G.E./G.R. Area: B4
- STAT 310 - Statistical Methods in the Social Sciences Units: 3

Advanced Lab Requirement

Plus, take one (1) of the following courses for 4 units:

- PSYC 491A - Research in Conditioning and Learning *Units: 4*
- PSYC 491B - Research in Physiological Psychology *Units: 4*
- PSYC 491C - Research in Cognitive Psychology *Units: 4*
- PSYC 491D - Research in Developmental Psychology *Units: 4*
- PSYC 491E - Research in Social & Personality Psychology *Units: 4*
- PSYC 491F - Research in Clinical Psychology *Units: 4*
- PSYC 493A - Research in Organizational Psychology *Units: 4*
- PSYC 493B - Research in Industrial Psychology *Units: 4*

Concentration Requirement

Students must select a concentration to complete the major for 23-32 units:

- Psychology, B.S.: Ergonomics and Human Factors Concentration
- Psychology, B.S.: Industrial/Organizational Psychology Concentration

Industrial/Organizational Psychology Concentration

The Industrial/Organization Psychology concentration requirements completing 23-24 units.

Upper Division Core Requirement

Take the required course below:

- PSYC 370 - Psychological Measurement *Units: 4*

Area Requirement

At least one course from the Area Requirements below must be either PSYC 469 or PSYC 479.

Industrial Topics

Take two (2) of the following courses for 8 units:

- PSYC 350 - Personality Psychology *Units: 4*
- PSYC 415 - Introduction to Applied Behavior Analysis *Units: 4*
- PSYC 471 - Decision Theory and Analysis *Units: 4*
- PSYC 472 - Motivation *Units: 4*
- PSYC 479 - Industrial Psychology *Units: 4*

Organizational Topics

Take two (2) of the following courses for 8 units:

- PSYC 461 - Culture and Social-Organizational Psychology *Units: 4*
- PSYC 462 - Psychology of Negotiation and Conflict Resolution *Units: 4*
- PSYC 463 - Interpersonal Processes *Units: 4*
- PSYC 469 - Group Dynamics *Units: 4*

Elective Courses

Take 4 additional units of upper-division PSYC courses, not including courses beginning with PSYC 491 or 493, or those marked "Not for psychology major or minor credit" in the catalog. Alternately, students may take one of the following courses for 3 units:

- MGMT 314 - Leadership and Management *Units: 3*
- MGMT 316 - Training and Development *Units: 3*
- MGMT 318 - Employee Relations and Employment Law *Units: 3*
- MGMT 400 - Seminar on Special Topics in Human Resource Management and Organizational Behavior *Units: 3*
- MGMT 406 - Compensation and Reward Systems *Units: 3*
- STAT 311 - Data Analysis using Statistical Packages *Units: 3*
- STAT 401 - Analysis of Variance for Psychology *Units: 3 ; G.E./G.R. Area: D4*
- STAT 473 - Introduction to Nonparametric Statistics *Units: 3*

Other Undergraduate Degree Requirements

In addition to major requirements, every student must also complete the University's baccalaureate requirements for graduation, which are described in the Requirements, Exams & Testing chapter of this catalog.

Department Courses Listed by Course Type

Psychology Courses

Department of Psychology

Go to information for this department.

Courses

Psychology

- • PSYC 100 - General Psychology *Units: 3 ; G.E./G.R. Area: D1-3*
- • PSYC 121 - Drugs and Behavior *Units: 3 ; G.E./G.R. Area: B2*
- • PSYC 200 - Methods of Investigation in Psychology *Units: 3*
- • PSYC 300 - Experimental Psychology *Units: 4*
- • PSYC 310 - Conditioning and Learning *Units: 4*
- • PSYC 320 - Physiological Psychology *Units: 4*
- • PSYC 330 - Cognitive Psychology *Units: 4*

- • PSYC 340 - Developmental Psychology *Units: 4*
- • PSYC 350 - Personality Psychology *Units: 4*
- • PSYC 360 - Social Psychology *Units: 4*
- • PSYC 370 - Psychological Measurement *Units: 4*
- • PSYC 381 - Psychopathology *Units: 4*
- • PSYC 382 - Child Psychopathology *Units: 4*
- • PSYC 386 - Stress and Coping *Units: 3 ; G.E./G.R. Area: B6*
- • PSYC 390 - Human Factors and Work Methods *Units: 4*
- • PSYC 411 - Comparative Psychology *Units: 4*
- • PSYC 412 - Learning Theory *Units: 4*
- • PSYC 413 - Advanced Conditioning and Learning *Units: 4*
- • PSYC 414 - History and Systems of Psychology *Units: 4*
- • PSYC 415 - Introduction to Applied Behavior Analysis *Units: 4*
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- • PSYC 472 - Motivation *Units: 4*
- • PSYC 479 - Industrial Psychology *Units: 4*
- • PSYC 481 - Introduction to Psychotherapy *Units: 4*
- • PSYC 490 - Independent Study *Units: 1-4*
- • PSYC 491A - Research in Conditioning and Learning *Units: 4*
- • PSYC 491B - Research in Physiological Psychology *Units: 4*
- • PSYC 491C - Research in Cognitive Psychology *Units: 4*
- • PSYC 491D - Research in Developmental Psychology *Units: 4*
- • PSYC 491E - Research in Social & Personality Psychology *Units: 4*
- • PSYC 491F - Research in Clinical Psychology *Units: 4*
- • PSYC 493A - Research in Organizational Psychology *Units: 4*
- • PSYC 493B - Research in Industrial Psychology *Units: 4*
- • PSYC 497 - Issues in Psychology *Units: 4*
- • PSYC 498 - Internship *Units: 1-4*

Minor

Psychology Minor

Minor Requirements (22 units)

The minor in Psychology is designed to provide a general background in psychology to complement training for careers in business and industry, biology, the medical professions, law or criminology, communication, and many other professions. See a psychology department advisor for help in selecting courses to complement your program. The minor consists of 22 units.

Lower Division Requirements

Take the following 6 units:

- PSYC 100 - General Psychology *Units: 3 ; G.E./G.R. Area: D1-3*
- PSYC 200 - Methods of Investigation in Psychology *Units: 3*

Upper Division Requirements

Take 16 additional units of upper-division PSYC courses, not including PSYC 300, courses beginning with PSYC 491 or 493, or those marked "Not for psychology major or minor credit" in the catalog.

Department Courses Listed by Course Type

Psychology Courses

Department of Psychology

Go to information for this department.

Courses

Psychology

- • PSYC 100 - General Psychology *Units: 3 ; G.E./G.R. Area: D1-3*
- • PSYC 121 - Drugs and Behavior *Units: 3 ; G.E./G.R. Area: B2*
- • PSYC 200 - Methods of Investigation in Psychology *Units: 3*
- • PSYC 300 - Experimental Psychology *Units: 4*
- • PSYC 310 - Conditioning and Learning *Units: 4*
- • PSYC 320 - Physiological Psychology *Units: 4*
- • PSYC 330 - Cognitive Psychology *Units: 4*
- • PSYC 340 - Developmental Psychology *Units: 4*
- • PSYC 350 - Personality Psychology *Units: 4*
- • PSYC 360 - Social Psychology *Units: 4*
- • PSYC 370 - Psychological Measurement *Units: 4*
- • PSYC 381 - Psychopathology *Units: 4*
- • PSYC 382 - Child Psychopathology *Units: 4*
- • PSYC 386 - Stress and Coping *Units: 3 ; G.E./G.R. Area: B6*
- • PSYC 390 - Human Factors and Work Methods *Units: 4*
- • PSYC 411 - Comparative Psychology *Units: 4*
- • PSYC 412 - Learning Theory *Units: 4*
- • PSYC 413 - Advanced Conditioning and Learning *Units: 4*
- • PSYC 414 - History and Systems of Psychology *Units: 4*
- • PSYC 415 - Introduction to Applied Behavior Analysis *Units: 4*
- • PSYC 421 - Cognitive Neuroscience *Units: 4*
- • PSYC 431 - Perception *Units: 4*
- • PSYC 441 - Advanced Developmental Psychology *Units: 4*

- • PSYC 461 - Culture and Social-Organizational Psychology *Units: 4*
- • PSYC 462 - Psychology of Negotiation and Conflict Resolution *Units: 4*
- • PSYC 463 - Interpersonal Processes *Units: 4*
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- • PSYC 472 - Motivation *Units: 4*
- • PSYC 479 - Industrial Psychology *Units: 4*
- • PSYC 481 - Introduction to Psychotherapy *Units: 4*
- • PSYC 490 - Independent Study *Units: 1-4*
- • PSYC 491A - Research in Conditioning and Learning *Units: 4*
- • PSYC 491B - Research in Physiological Psychology *Units: 4*
- • PSYC 491C - Research in Cognitive Psychology *Units: 4*
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- • PSYC 491F - Research in Clinical Psychology *Units: 4*
- • PSYC 493A - Research in Organizational Psychology *Units: 4*
- • PSYC 493B - Research in Industrial Psychology *Units: 4*
- • PSYC 497 - Issues in Psychology *Units: 4*
- • PSYC 498 - Internship *Units: 1-4*

Department of Public Affairs and Administration

The Department Office is located on the 4th Floor of the Meiklejohn Hall building, Room 4122/4128

Office Hours: 8:00 a.m. - 5:00 p.m., Monday through Friday

Dept Phone: (510) 885-3282

Faculty

Professors

Jennifer L. Eagan, Ph.D. Duquesne University

Toni E. Fogarty, Ph.D. University of California, Berkeley

O. Jombo ("Jay") Umeh (Chair), Ph.D. Texas Tech University

Associate Professor

Michael Y. Moon, Ph.D. Teachers College, Columbia University

Assistant Professors

Nicole Diggs, Ph.D. Florida Atlantic University

Joyce Keyes Williams, Ph.D. State University of New York

Institute for Governmental Research and Training: Toni E. Fogarty (Director)

Department Statement

Public Administration is a rich and challenging multi-disciplinary field drawing from sociology, anthropology, philosophy, psychology, economics, and urban and organizational studies. The master's degree program provides students with a grounding in major philosophical and social science thinking about the nature of organizations; it helps students to build the intellectual and practical tools they will need to become effective organizational leaders in the public and non-profit sectors. The M.P.A. program is designed to increase the personal and professional effectiveness of people working in public, voluntary, and private organizations. The purpose of the program is to prepare individuals for leadership positions in various organizations with a sense of commitment to social purpose, the public interest, and effective public problem-solving.

The MS-HCA program seeks to develop professionals who understand how to manage non-profit, for-profit, and voluntary health care organizations in effective and innovative ways. The program focuses on the need for health care administrators to be continuous learners, critical thinkers, and ethical practitioners by recognizing the multiply-constructed nature of human, social, and organizational realities and the complex relationships between the system of health providers and the needs of the community.

About the Department

Use our university website link to learn more about what the Public Affairs and Administration Department has to offer.

- Forms
- Employment & Internships
- Scholarships
- Survival Tips
- News
- Helpful Links
- And more...

Master

Health Care Administration, M.S. (Available Online)

The M.S. Health Care Administration online program is only available through Continuing Education.

Health Care Administration, M.S. Program

Program Description

The M.S. in Health Care Administration (MS-HCA) program has been designed to prepare professionals to meet the present and emerging administration and management challenges in the rapidly changing health services delivery environment. Health services delivery is undergoing rapid growth and change in

the United States and around the world - a change that has accelerated in the 21st century. As a result, the responsibilities of health care administrators and managers are continuously being redefined. In this dynamic environment, health care administrators and managers must keep pace by gaining new knowledge, new skills, and new competencies.

The MS-HCA program exposes students to the latest theories, strategies, and technology in the field, with a focus on developing the professional skills desired by today's health care employers. Students in the MS-HCA program acquire the analytical skills needed to explore new models of culturally appropriate patient-centered service delivery systems, develop the leadership skills needed to discover and implement creative solutions to problems, and cultivate their ability to participate collaboratively in diverse work teams.

Career Opportunities

The need for health care administrators and managers is growing nationally, and even more so in California. According to the U.S. Department of Labor, health care is one of the largest industries in the U.S., and the second largest employer, with more than 11 million jobs. According to the Centers for Medicare & Medicaid Services (CMS), the average annual health spending growth (6.1%) is anticipated to outpace average annual growth in the overall economy (4.4%) for the projection period of 2009-2019. By 2019, national health spending is expected to reach \$4.5 trillion and comprise 19.3% of GDP.

While clinical care personnel are the frontline of the U.S. health care system, health care administrators and managers play a significant role. They plan, direct, coordinate, and supervise medicine and health services delivery in hospitals, clinics, managed care organizations, public health agencies, and other health care organizations. According to the Department of Labor's Occupational Outlook Handbook, employment in this field is expected to increase 17% from 2014 to 2024, faster than the average for all occupations, with a projected need of 56,300 additional positions and an estimated median annual wage of \$92,810. A master's degree in health care administration, health services management, public health or a similar degree is the standard credential for most positions in the field of health care administration and management.

Program Design

The MS-HCA program is based on the cohort model of education. In the MS-HCA program, students advance through the curriculum collectively. Students admitted at the same time will advance through the program as a group, following a MS-HCA Degree Completion Roadmap that is specific for their admission cohort. Students will enroll in two courses per semester.

The cohort model has a wide array of benefits, including:

- Mutual academic, emotional, and logistical support for program success and timely degree completion
- A clear programmatic structure; students know which courses should be completed and the semester in which the courses should be completed
- Enrollment in required courses is non-competitive
- Camaraderie and collaborative learning with colleagues
- Lasting personal ties and professional networks that aid in career development and ongoing professional growth

Unique Features

The MS-HCA degree is offered in two formats: the Hayward Campus-based format and the fully online format. The two formats are separate, meaning that a student cannot move from one format to the other. The curriculum is the same for both programs, as are the faculty.

Applicants in the Hayward Campus-based program are not required to have any professional experience in the field of health care. The fully online MS-HCA program requires applicants to have a minimum of two years of paid professional experience in the field of health care in the U.S.

Applicants who hold or are seeking international student visas are eligible for admission to the Hayward Campus-based program but they are not eligible for admission to the online MS-HCA program .

Most, but not all, of the courses offered at the Hayward Campus-based MS-HCA program are hybrid courses, meaning that some of the class sessions are in-person and some are fully online. In the online MS-HCA program, all of the courses are fully online.

Target Population

The MS-HCA program has been designed for people who:

- Have achieved an administration or management position in the health care field and are seeking to advance their careers into a higher-level leadership position
- Are working in health care field and are seeking to develop the knowledge base and skill sets needed for an administration or management position
- Lack prior health care experience but want to prepare for an administration or management position in this challenging industry (Hayward Campus-based program only)

Admission Requirements

The MS-HCA degree program is open to applicants planning a career or advancing an administration or management career in the health services delivery field who have a baccalaureate degree from an accredited institution. Admission will be granted based upon the Admission Committee's overall assessment of the applicant's qualifications and academic/career potential, using the following criteria:

- Cumulative undergraduate GPA of at least 2.50 is required and a GPA greater than 2.50 is preferred;
- Statement of Purpose in pursuing the MS-HCA degree (a 1-2 page essay double-spaced, explaining who you are, your career goals and how the MS-HCA degree will help you achieve those goals, and why you believe you will be successful in the program);
- Two letters of academic and/or professional recommendation (on professional letterhead). The letter writers should include how they know you, if they think you would be successful in the program and why they think that;
- Professional resume/vita;
- All undergraduate/graduate transcripts. (These must be sent directly to University Admissions NOT the Department.)

All applicants must submit an online Graduate Admission application declaring Health Care Administration as a degree objective at CALSTATE Apply along with a non-refundable application fee. In addition, applicants must submit a statement of purpose, 2 letters of reference and a resume directly to the Department of Public Affairs and Administration.

Please review the detailed application instructions on the Department's website at <http://www20.csueastbay.edu/class/departments/publicadmin/healthcare/index.html>

Student Standing and Progress Toward the Degree

There are three categories of student status, which reflect student progress toward the degree: "Conditionally Classified Graduate" student, "Classified Graduate" student, and "Advancement to Candidacy" student.

- Students achieve "Conditionally Classified Graduate" status when they have been admitted to the MS-HCA program, but have not yet completed the prerequisites for the "Classified Graduate" status in the MS-HCA program.
- Students achieve "Classified Graduate" status when they have successfully completed four of the required program courses with a grade of C or better, have a cumulative GPA of 3.00 or better, and have satisfied the University Writing Skills Requirement (UWSR). For information on meeting the UWSR, see the Testing Office website at www.csueastbay.edu/testing or call 510.885.3661.
- Students are "Advanced to Candidacy" when they have achieved "Classified Graduate" status, have successfully completed all of the required program courses with a grade of C or better and have a cumulative program GPA of 3.00 or better.

Program Learning Outcomes

The Health Care Leadership Alliance (HLA), a consortium of the major health care professional associations, has identified five competency domains in which all health care administrators and managers should have proficiency for workplace effectiveness: communication and relationship management, leadership, professionalism, knowledge of the health care environment, and business skills and knowledge. These competency domains serve as the basis of the MS-HCA program's six program learning outcomes.

Students graduating with a M.S. in Health Care Administration from California State University will be able to:

- Analyze and think critically about current and emerging issues in the health care system and the policy environment in which the system operates.
- Communicate effectively with internal and external organizational stakeholders, both in written and oral form.
- Form collaborative relationships and interact appropriately with diverse client groups, workplace supervisors and colleagues, and other organizational stakeholders.
- Create effective and creative approaches for fostering teamwork and encouraging others to align their priorities with organizational excellence.
- Align personal and organizational conduct with ethical, legal, and professional standards.
- Apply business principles to the health care environment, including financial management, human resource management, organizational dynamics and governance, strategic planning, information management, risk management, and quality improvement.

Health Care Administration Degree Requirements (34 units)

Required Courses

Students must complete all of the 28 units of required courses in the MS-HCA program in residence. No transfer or course substitution units will be accepted.

- HCA 611 - Evolution of the U.S. Health Care System, Health Disparities and Policy *Units: 4*
- HCA 612 - Health Care Management, Leadership and Strategic Planning *Units: 4*
- HCA 621 - Health Care Quality Improvement Tools and Methodologies *Units: 4*
- HCA 622 - Health Care Technology and Informatics *Units: 4*
- HCA 631 - Health Care Financial Management and Third-Party Reimbursement *Units: 4*
- HCA 641 - Health Care Legal, Diversity and Ethical Issues *Units: 4*
- HCA 642 - Health Care Program Development and Grant Writing *Units: 4*

Capstone Project

Students must achieve Classified Graduate status before they will be allowed to enroll in HCA 693. HCA 693 consists of two components: a field-based project and a comprehensive Program Learning Outcomes (PLOs) examination.

HCA 693 for 6 units requires two semesters of work: the semester of enrollment and the subsequent semester. In the enrollment semester, the student will receive a grade of "RP" (Report in Progress) if the student has been making adequate progress in the field-based project. Both the field-based project and the PLO examination must be successfully completed by the end of the semester immediately after the enrollment semester. If the work for HCA 693 has not been completed by the end of the second semester, the "RP" grade will convert to a grade of "F."

- HCA 693 - Capstone Project *Units: 6*

Other Graduate & Post-Baccalaureate Degree Requirements

In addition to departmental requirements, every student must also satisfy the University requirements for graduation as described throughout this catalog. These include the 70% unit residence requirement; the five-year rule on currency of subject matter; the minimum number of units in 600-level courses; the "C" minimum grade for each graduate course; the 3.00 cumulative grade point average; and the University Writing Skills Requirement.

Note: For information on meeting the University Writing Skills Requirement, see the Testing Office website at www.csueastbay.edu/testing or call (510) 885-3661.

Department Courses Listed by Course Type

Public Affairs and Administration Courses

Department of Public Affairs and Administration

Go to information for this department.

Courses

Health Care Administration: Graduate

- • HCA 611 - Evolution of the U.S. Health Care System, Health Disparities and Policy *Units: 4*
- • HCA 612 - Health Care Management, Leadership and Strategic Planning *Units: 4*
- • HCA 621 - Health Care Quality Improvement Tools and Methodologies *Units: 4*
- • HCA 622 - Health Care Technology and Informatics *Units: 4*
- • HCA 631 - Health Care Financial Management and Third-Party Reimbursement *Units: 4*
- • HCA 641 - Health Care Legal, Diversity and Ethical Issues *Units: 4*
- • HCA 642 - Health Care Program Development and Grant Writing *Units: 4*
- • HCA 690 - Independent Study *Units: 1-4*
- • HCA 693 - Capstone Project *Units: 6*
- • HCA 697 - Issues in Health Care Administration *Units: 3*
- • HCA 698 - Internship *Units: 1-4*

Public Administration

- • PA 490 - Independent Study *Units: 1-4*

Public Administration: Graduate

- • PA 611 - Public Administration Philosophy, Theory, and Practice *Units: 4*
- • PA 612 - Research Methods in Public Administration *Units: 4*
- • PA 621 - Seminar in Human Organizations, Change, and Social Realities *Units: 4*
- • PA 622 - Seminar in the Public Policy Process *Units: 4*
- • PA 631 - Management, Human Resources, and Ethics in the Public Sector *Units: 4*
- • PA 641 - Public Budgeting and Finance Administration *Units: 4*
- • PA 690 - Independent Study *Units: 1-4*
- • PA 692 - Graduate Synthesis *Units: 4*
- • PA 695 - Internship in Public Administration *Units: 4*
- • PA 697 - Issues in Public Administration *Units: 4*
- • PA 698 - Internship *Units: 1-3*
- • PA 699 - Department Thesis *Units: 4*

Public Administration, M.P.A.: Health Care Administration Concentration

Public Administration, M.P.A. Program

Program Description

The Department of Public Administration offers a program of study leading to the degree of Master of Public Administration, with concentrations in public management and policy analysis (PMPA) and health care administration (HCA). The program is designed to assist full and part-time students in preparing for professional careers in positions of administrative leadership in public and quasi-public organizations, for teaching positions in the community colleges, and for advanced doctoral studies in public administration.

Graduate courses are offered Monday through Thursday evenings and some Saturdays to meet the needs of working adults.

Program Perspective

Public Administration is a rich and challenging multi-disciplinary field drawing from the disciplines of political science, sociology, anthropology, philosophy, psychology, economics, and urban and organizational studies. The Department focuses on expanding the meaning of public administration in government agencies and non-profit and community organizations. The MPA Program provides students with a grounding in major philosophical and social science thinking about the nature of organizations and helps students build the intellectual and practical policy tools needed to become effective organizational leaders in the public and non-profit sectors. The MPA Program is designed to increase students' personal and professional effectiveness as employees of public, non-profit, and private organizations. **The purpose of the Program is to prepare students for leadership positions in organizations with a commitment to social purpose, the public interest, and effective public problem solving.** Overall, emphasis is placed upon developing in its graduates sensitivities to a wide variety of human, social, and organizational realities in order to assist public organizations in formulating and achieving their goals and striving toward responsible social change.

The program builds on several assumptions:

- that many complex and far-reaching social problems require the stewardship of public agencies;
- that the citizens are the central focus of everything public administration does or ought to be;
- that public agencies should encourage democratic practices, personal education and growth, and the improvement in the quality of life within the public sector workplace;
- that public agencies should nurture and support a critical awareness on the part of public administrators, leading to an ability to challenge and change administrative practice; and
- that public administrators need to find creative and innovative ways to provide quality public services, especially in times of resource scarcity.

In sum, we believe the challenge of our changing post-industrial era is best met by humanizing public organizations, by strengthening their capacities for intelligent policy analysis and effective action on behalf of the public good, and by encouraging public administrators to embrace learning, creativity, and innovation.

Career Opportunities

The demand for the public administration degree and profession has continued to grow and much of the growth has been driven by the complex requirements for capable government employees to serve the needs of citizens. Public administrators manage nearly every aspect of public service at the federal, state and local levels offering the opportunity to help shape the future of our society. With vast numbers of citizens seeking help to access services at all levels of government and other public service organizations, the MPA program is designed to equip our graduates with skills in areas such as policy analysis, management analysis, public policy, public management, nonprofit management, eligibility assessment, and program assessment, just to name a few. In addition to meeting "demand" projections based on growth of job categories, the MPA program faculty are also interested in graduates enhancing their effectiveness for jobs they may already hold. Improving work effectiveness of seasoned professionals who seek the MPA program is another component of the opportunities we provide.

Admission Requirements

The MPA degree program is open to students planning careers in public organizations who have a baccalaureate degree from an accredited institution. Admission will be granted based upon the Admission Committee's overall assessment of the student's qualifications and academic/career potential, using the following criteria:

- Cumulative undergraduate GPA of at least 2.5;
- Students with GPA below 2.5 will not be considered for admission.
- Statement of Purpose in pursuing the MPA degree. In a 1-2 page essay double-spaced, please explain who you are, your career goals and how the MPA degree will help you achieve those goals;
- Two letters of academic and/or professional recommendation (on professional letterhead - company or educational institution stationery). The letter writers should include how they know you, if they think you would be successful in the program and why. Letters must be current, dated and signed.
- Professional resume/vita;
- All undergraduate/graduate transcripts. (These must be sent directly to University Admissions - NOT the Department.)

All applicants must submit an online Graduate Admission application declaring Public Administration as a degree objective, and transcripts, at CALSTATE Apply with a non-refundable fee. For the "Statement of Purpose" and "References" sections on the CALSTATE Apply application, applicants may put "submitted directly to the department."

In addition, applicants must also submit the above application materials (Statement of Purpose, 2 letters of reference and resume) directly to the Department of Public Affairs and Administration at the following address:

California State University East Bay
Department of Public Affairs and Administration
25800 Carlos Bee Boulevard, MI 4122
Hayward, CA 94542-3040

The Department cannot accept materials sent electronically. We prefer all documents be mailed to us but will accept faxed documents if necessary. The Department fax number is 510 885-3726.

PLEASE REMEMBER TO PUT YOUR NAME ON EACH AND EVERY PAGE OF ALL DOCUMENTS SUBMITTED TO THE DEPARTMENT!

PLEASE REMEMBER THAT BOTH YOUR ONLINE APPLICATION TO THE UNIVERSITY AND THE ABOVE MATERIALS TO BE SUBMITTED DIRECTLY TO THE DEPARTMENT MUST BE POSTMARKED OR RECEIVED BY THE APPLICATION DEADLINES.

Applicants will be notified of the Department's decision via email. Applicants will be required to confirm acceptance of admission by the deadline stated in the email or the offer may be withdrawn.

Student Standing and Progress Toward the Degree

There are three categories of student status, which reflect student progress toward the degree: "Conditionally Classified Graduate" student, "Classified Graduate" student, and "Advancement to Candidacy."

- Students achieve "Conditionally Classified Graduate" status when they have been admitted to the MPA program, but have not yet completed the prerequisites for the "Classified Graduate" status in the MPA program.
- Students achieve "Classified Graduate" status when they have successfully completed four of the required program courses with a grade of C or better, have a cumulative GPA of 3.00 or better, and have satisfied the University Writing Skills Requirement. For information on meeting the University Writing Skills Requirement, see the Testing Office website at www.csueastbay.edu/testing or call 510.885.3661.

- Students are "Advanced to Candidacy" when they have successfully completed all of the required program courses with a grade of C or better and have a cumulative GPA of 3.00 or better. Please note that a minimum of 22 units must be completed in residence after admission to the program.

Program Learning Outcomes

- MPA PLO 1: Lead and manage in public governance while demonstrating an understanding of the role of theory in humanizing public organizations and the application of these theories toward administrative inquiry
- MPA PLO 2: Participate in and contribute to the policy process
- MPA PLO 3: Analyze, synthesize, think critically, solve problems and demonstrate an understanding of interpretive and quantitative research methodologies
- MPA PLO 4: Articulate and apply a public service perspective that integrates social purpose, the public interest, and effective participative problem solving
- MPA PLO 5: Communicate and interact productively with a diverse and changing workforce and citizenry with a commitment to social equity and justice

Public Administration Degree Requirements (32 units)

Core Courses

The following 20 units of core coursework are required:

- PA 611 - Public Administration Philosophy, Theory, and Practice *Units: 4*
- PA 612 - Research Methods in Public Administration *Units: 4*
- PA 621 - Seminar in Human Organizations, Change, and Social Realities *Units: 4*
- PA 622 - Seminar in the Public Policy Process *Units: 4*

Plus complete one (1) of the following:

- PA 695 - Internship in Public Administration *Units: 4*
- PA 697 - Issues in Public Administration *Units: 4*

Concentrations

Select one (1) of the following concentrations for 8 units:

- Public Administration, M.P.A.: Health Care Administration Concentration
- Public Administration, M.P.A.: Public Management and Policy Analysis Concentration

Capstone Requirement

Complete one (1) course for 4 units from the following to complete the program:

- PA 692 - Graduate Synthesis *Units: 4*
- PA 699 - Department Thesis *Units: 4*

Health Care Administration

Complete the following 8 units that are required to fulfill the concentration:

- HCA 611 - Evolution of the U.S. Health Care System, Health Disparities and Policy *Units: 4*

Plus choose one (1) of the following:

- HCA 612 - Health Care Management, Leadership and Strategic Planning *Units: 4*
- HCA 631 - Health Care Financial Management and Third-Party Reimbursement *Units: 4*
- HCA 641 - Health Care Legal, Diversity and Ethical Issues *Units: 4*

Other Graduate & Post-Baccalaureate Degree Requirements

In addition to departmental requirements, every student must also satisfy the University requirements for graduation as described throughout this catalog. These include the 70% unit residence requirement; the five-year rule on currency of subject matter; the minimum number of units in 600-level courses; the "C" minimum grade for each graduate course; the 3.00 cumulative grade point average; and the University Writing Skills Requirement.

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Public Affairs and Administration Courses

Department of Public Affairs and Administration

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Health Care Administration: Graduate

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- • HCA 690 - Independent Study *Units: 1-4*
- • HCA 693 - Capstone Project *Units: 6*
- • HCA 697 - Issues in Health Care Administration *Units: 3*
- • HCA 698 - Internship *Units: 1-4*

Public Administration

- • PA 490 - Independent Study *Units: 1-4*

Public Administration: Graduate

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Public Administration, M.P.A.: Public Management and Policy Analysis Concentration

Public Administration, M.P.A. Program

Program Description

The Department of Public Administration offers a program of study leading to the degree of Master of Public Administration, with concentrations in public management and policy analysis (PMPA) and health care administration (HCA). The program is designed to assist full and part-time students in preparing for professional careers in positions of administrative leadership in public and quasi-public organizations, for teaching positions in the community colleges, and for advanced doctoral studies in public administration.

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Program Learning Outcomes

- MPA PLO 1: Lead and manage in public governance while demonstrating an understanding of the role of theory in humanizing public organizations and the application of these theories toward administrative inquiry
- MPA PLO 2: Participate in and contribute to the policy process
- MPA PLO 3: Analyze, synthesize, think critically, solve problems and demonstrate an understanding of interpretive and quantitative research methodologies
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- MPA PLO 5: Communicate and interact productively with a diverse and changing workforce and citizenry with a commitment to social equity and justice

Public Administration Degree Requirements (32 units)

Core Courses

The following 20 units of core coursework are required:

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Plus complete one (1) of the following:

- PA 695 - Internship in Public Administration *Units: 4*
- PA 697 - Issues in Public Administration *Units: 4*

Concentrations

Select one (1) of the following concentrations for 8 units:

- Public Administration, M.P.A.: Health Care Administration Concentration
- Public Administration, M.P.A.: Public Management and Policy Analysis Concentration

Capstone Requirement

Complete one (1) course for 4 units from the following to complete the program:

- PA 692 - Graduate Synthesis *Units: 4*
- PA 699 - Department Thesis *Units: 4*

Public Management and Policy Analysis Concentration

The following 8 units are required for the concentration:

- PA 631 - Management, Human Resources, and Ethics in the Public Sector *Units: 4*
- PA 641 - Public Budgeting and Finance Administration *Units: 4*

Other Graduate & Post-Baccalaureate Degree Requirements

In addition to departmental requirements, every student must also satisfy the University requirements for graduation as described throughout this catalog. These include the 70% unit residence requirement; the five-year rule on currency of subject matter; the minimum number of units in 600-level courses; the "C" minimum grade for each graduate course; the 3.00 cumulative grade point average; and the University Writing Skills Requirement.

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Department Courses Listed by Course Type

Public Affairs and Administration Courses

Department of Public Affairs and Administration

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Courses

Health Care Administration: Graduate

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- • HCA 612 - Health Care Management, Leadership and Strategic Planning *Units: 4*
- • HCA 621 - Health Care Quality Improvement Tools and Methodologies *Units: 4*
- • HCA 622 - Health Care Technology and Informatics *Units: 4*
- • HCA 631 - Health Care Financial Management and Third-Party Reimbursement *Units: 4*
- • HCA 641 - Health Care Legal, Diversity and Ethical Issues *Units: 4*
- • HCA 642 - Health Care Program Development and Grant Writing *Units: 4*
- • HCA 690 - Independent Study *Units: 1-4*
- • HCA 693 - Capstone Project *Units: 6*
- • HCA 697 - Issues in Health Care Administration *Units: 3*
- • HCA 698 - Internship *Units: 1-4*

Public Administration

- • PA 490 - Independent Study *Units: 1-4*

Public Administration: Graduate

- • PA 611 - Public Administration Philosophy, Theory, and Practice *Units: 4*
- • PA 612 - Research Methods in Public Administration *Units: 4*
- • PA 621 - Seminar in Human Organizations, Change, and Social Realities *Units: 4*
- • PA 622 - Seminar in the Public Policy Process *Units: 4*
- • PA 631 - Management, Human Resources, and Ethics in the Public Sector *Units: 4*
- • PA 641 - Public Budgeting and Finance Administration *Units: 4*
- • PA 690 - Independent Study *Units: 1-4*
- • PA 692 - Graduate Synthesis *Units: 4*
- • PA 695 - Internship in Public Administration *Units: 4*
- • PA 697 - Issues in Public Administration *Units: 4*
- • PA 698 - Internship *Units: 1-3*
- • PA 699 - Department Thesis *Units: 4*

Department of Social Work

The Department Office is located on the 4th Floor in the Meiklejohn Hall building, Room 4064

Office Hours: 8:00 a.m. - 5:00 p.m., Monday through Friday

Faculty

Professor Emerita

Dianne Rush Woods, Ph.D. University of California, Berkeley (LCSW, MPH)

Professor

Holly Danforth Vugia, Ph.D. University of California, Berkeley, (LCSW, PPSC)

Associate Professors

Toni Naccarato, Ph.D. University of California, Berkeley (MSW)

Sarah Taylor, Ph.D. University of California, Berkeley (MSW)

Rose Wong (Chair), Ph.D. University of California, Berkeley (LCSW, MPA)

Assistant Professors

Kristen Gustavson, Ph.D. University of California, Berkeley (LCSW)

Macheo Payne, Ed.D. San Francisco State University (MSW)

Department Statement

The Department of Social Work offers instruction at the graduate level to a diverse multicultural and multiracial student population, leading to the Master of Social Work (MSW) degree. Through teaching, advising and the field experience, MSW faculty members promote a sense of activism, social justice, commitment to change, and a vision of professional competence for students admitted to the program. The CSUEB MSW degree focuses on urban social work practice with vulnerable and/or oppressed populations. The two-year program requires 60 units of coursework. There are two concentrations of choice: Children, Youth and Families or Community Mental Health. Within the program of study, students engage in both academic classes and field experience. This melding of coursework and field experience prepares students for effective social work practice in today's increasingly diverse, complex multicultural and multiracial society.

About the Department

Use our university website link to learn more about what the Social Work Department has to offer.

- Applying to MSW
- Alumni Association
- Scholarships
- Student Associations

- And more . . .

Master

Social Work, M.S.W.: Children, Youth, and Families Concentration

Social Work, M.S.W. Program

Program Description

The Department of Social Work offers graduate study leading to the Master of Social Work (M.S.W.). This program trains social workers for leadership and direct practice positions in social work and is accredited by the Council on Social Work Education. The program has a multicultural focus, preparing graduates to work in both non-profit and public agencies and to be proficient in serving diverse populations in urban communities.

The mission of the California State University, East Bay Master of Social Work program is to graduate culturally responsive urban social workers in the areas of Children, Youth, and Families and Community Mental Health. Social work graduates are prepared to address individual, family, group, and community needs caused by inequalities of class and identity including race, ethnicity, gender, age, (dis)ability, sexual orientation, and other forms of social injustice. Advocacy and social change around these injustices form the core of the MSW program.

Our vision is to create a cadre of diverse leaders to be catalysts for social change and transform oppressive systems in partnership with the communities we serve.

Career Opportunities

Graduates of the M.S.W. program are prepared to work with individuals, families, groups, and organizations in both public and non-profit practice. The State of California is experiencing a shortage of individuals prepared for leadership roles in social work practice. The State also has a critical shortage of social workers trained at the master's level, and the demand is expected to increase. Social Workers are needed to work with a variety of populations, including individuals with serious health and behavioral health issues, children and families involved in the child welfare system, older adults, individuals with disabilities, and people living in poverty.

Admission Requirements

The M.S.W. degree program is open to students planning a career in social work who have a baccalaureate degree from an accredited institution and who have earned an overall grade point average of 2.8 (on a 4.0 scale). Students with a GPA below 2.8 may be admitted based on an evaluation of their student profile, including work experience, resume, letters of recommendation, and personal statement (see below).

In addition to the online university application at CALSTATE Apply all applicants should submit:

- A completed departmental application form;
- A personal statement (3 pages) with their application stating their reasons for pursuing the M.S.W. degree, describing their relevant work experience, and explaining their past academic performance;

- Three letters of recommendation (letters from prior instructors and/or supervisors preferred); and
- A resume. Successful experience in social work or social work-related positions will be considered in evaluating applications.

Admission to the university and admission to the M.S.W. degree program are separate steps. It is suggested that application for admission to the university be filed together with the form for entry into the degree program.

Student Standing and Progress Toward the Degree

There are three categories of student status that reflect student progress toward the degree.

- Students are in "Conditionally Classified Graduate" status when they have been admitted to the M.S.W. degree program, but have not yet completed the prerequisites for the "Classified Graduate" status in the M.S.W. degree program.
- Students achieve "Classified Graduate" status when they have satisfactorily completed all the prerequisites for the M.S.W. degree program and satisfied the University Writing Skills Requirement. (See "Prerequisites for 'Classified Graduate' Status" below.)
- Students are "Advanced to Candidacy" when they have completed the core courses with a "C" or better in all courses.

Please note that a minimum of 42 units must be completed in residence after admission to the program.

Note: If the student fails to maintain progress by falling below a 3.0 GPA in the graduate courses for two or more consecutive semesters, it will lead to academic disqualification from the university.

Program Learning Outcomes

- **Values and Ethics:** Demonstrate ethical decision making and behavior guided by the NASW Code of Ethics and other relevant codes.
- **Professional Use of Self:** Apply use of self as an autonomous professional tool of engagement and collaboration, demonstrated by self-awareness, bias-reduction, sound judgment, the ability to integrate supervisory feedback, and a commitment to ongoing learning.
- **Critical Thinking:** Critically analyze and synthesize information related to evidence-informed social work intervention, prevention, assessment, planning, policies, evaluation and research.
- **Applying Theory:** Apply theoretical material to urban social work practice, grounded in a strength-based, empowering, and ecological systems perspective.
- **Advocacy:** Advocate for sustainable well-being, build capacity and advance social justice for clients and communities, and create innovative solutions in complex social contexts.
- **Diversity:** Engage with diverse populations from positions of cultural humility and respect for identity, embracing a commitment to culturally competent and responsive services.
- **Communication:** Demonstrate effective written and oral communication across diverse client and social service systems.

Social Work Degree Requirements (60 units)

Prerequisites or Foundation Requirements

As prerequisites to "Classified Graduate" status, students must satisfy the University Writing Skills Requirement and have satisfactorily completed STAT 1000 or equivalent, and a course in human biology or anatomy and physiology with a grade of "C" or better. For information on meeting the University

Writing Skills Requirement, see the Testing Office website at www.csueastbay.edu/testing or call 510.885.3661.

Core Courses

The following 32 units of coursework are required:

- SW 600 - Human Behavior and the Social Environment *Units: 4*
- SW 601 - Race, Gender, and Inequality *Units: 4*
- SW 602 - Introduction to Social Welfare Policy *Units: 4*
- SW 603 - Introduction to Social Welfare Research *Units: 4*
- SW 611 - Generalist Practice I *Units: 4*
- SW 612 - Generalist Practice II *Units: 4*
- SW 695A - Social Work Practicum I *Units: 4*
- SW 695B - Social Work Practicum II *Units: 4*

Elective Courses

Select one (1) course for 4 units from the following:

- SW 630 - The Recovery Model in Community Mental Health *Units: 4*
- SW 631 - Advanced Psychosocial Assessment and Diagnosis *Units: 4*
- SW 632 - Family Violence Across the Lifespan *Units: 4*
- SW 633 - Assessment and Treatment of Substance Abuse in Social Work Practice *Units: 4*
- SW 634 - Legal Issues in Social Work Practice *Units: 4*
- SW 697 - Issues in Social Work *Units: 1-4*

Capstone Requirement

Students have three choices for completing a capstone experience in the MSW program. The first choice is the Integrative Seminar, SW 693. This integrative seminar provides students with the opportunity to demonstrate mastery of the core student learning outcomes of the MSW program. Students, in cooperation with faculty and agency supervisors, complete an agency-focused project or research on a topic focused on social work practice and advocacy.

The second is the Departmental Thesis, SW 699. Students may either sign up individually with a faculty advisor or meet with their advisor in a scheduled graduate course. A faculty member serves as director of the departmental thesis. An oral defense is required. Two copies of the departmental thesis are required for the department.

The third and final choice is a University Thesis, SW 691. This choice is supervised by a faculty committee and follows a university specified format.

Note: A grade of "RP" (Report in Progress) may be given for a thesis that is not completed at the end of the semester. The "RP" grade must be changed to a passing grade within five (5) years of your initial enrollment in a thesis course, or it will become an "F."

Choose one (1) capstone experience for 4 units from below:

- SW 691 - University Thesis *Units: 4*
- SW 693 - Integrative Project *Units: 4*
- SW 699 - Departmental Thesis *Units: 4*

Concentrations

Students must select one (1) concentration for 20 units listed below:

- Social Work, M.S.W.: Children, Youth, and Families Concentration
- Social Work, M.S.W.: Community Mental Health Concentration

Children, Youth, and Families Concentration

Concentration Requirements

Take the following 20 units of coursework to complete the concentration requirements:

- SW 621A - Advanced Practice I: Children, Youth, and Families: Individuals and Families *Units: 4*
- SW 621B - Advanced Practice II: Children, Youth, and Families: Groups, Organizations, and Communities *Units: 4*
- SW 689 - Community-Based Research in Social Work Practice *Units: 4*
- SW 695C - Social Work Practicum III *Units: 4*
- SW 695D - Social Work Practicum IV *Units: 4*

Other Graduate & Post-Baccalaureate Degree Requirements

In addition to departmental requirements, every student must also satisfy the University requirements for graduation as described throughout this catalog. These include the 70% unit residence requirement; the five-year rule on currency of subject matter; the minimum number of units in 600-level courses; the "C" minimum grade for each graduate course; the 3.00 cumulative grade point average; and the University Writing Skills Requirement.

Note: For information on meeting the University Writing Skills Requirement, see the Testing Office website at www.csueastbay.edu/testing or call (510) 885-3661.

Department Courses Listed by Course Type

Social Work Courses

Department of Social Work

Go to information for this department.

Courses

Social Work: Graduate

- • SW 600 - Human Behavior and the Social Environment *Units: 4*
- • SW 601 - Race, Gender, and Inequality *Units: 4*
- • SW 602 - Introduction to Social Welfare Policy *Units: 4*
- • SW 603 - Introduction to Social Welfare Research *Units: 4*
- • SW 611 - Generalist Practice I *Units: 4*
- • SW 612 - Generalist Practice II *Units: 4*
- • SW 621A - Advanced Practice I: Children, Youth, and Families: Individuals and Families *Units: 4*
- • SW 621B - Advanced Practice II: Children, Youth, and Families: Groups, Organizations, and Communities *Units: 4*
- • SW 622A - Advanced Practice I: Community Mental Health: Individuals and Families *Units: 4*
- • SW 622B - Advanced Practice II: Community Mental Health: Groups, Organizations, and Communities *Units: 4*
- • SW 630 - The Recovery Model in Community Mental Health *Units: 4*
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- • SW 634 - Legal Issues in Social Work Practice *Units: 4*
- • SW 689 - Community-Based Research in Social Work Practice *Units: 4*
- • SW 690 - Independent Study *Units: 1-4*
- • SW 691 - University Thesis *Units: 4*
- • SW 693 - Integrative Project *Units: 4*
- • SW 695A - Social Work Practicum I *Units: 4*
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- • SW 695C - Social Work Practicum III *Units: 4*
- • SW 695D - Social Work Practicum IV *Units: 4*
- • SW 697 - Issues in Social Work *Units: 1-4*
- • SW 699 - Departmental Thesis *Units: 4*

Social Work, M.S.W.: Community Mental Health Concentration

Social Work, M.S.W. Program

Program Description

The Department of Social Work offers graduate study leading to the Master of Social Work (M.S.W.). This program trains social workers for leadership and direct practice positions in social work and is accredited by the Council on Social Work Education. The program has a multicultural focus, preparing graduates to work in both non-profit and public agencies and to be proficient in serving diverse populations in urban communities.

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Career Opportunities

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Program Learning Outcomes

- **Values and Ethics:** Demonstrate ethical decision making and behavior guided by the NASW Code of Ethics and other relevant codes.
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- **Diversity:** Engage with diverse populations from positions of cultural humility and respect for identity, embracing a commitment to culturally competent and responsive services.
- **Communication:** Demonstrate effective written and oral communication across diverse client and social service systems.

Social Work Degree Requirements (60 units)

Prerequisites or Foundation Requirements

As prerequisites to "Classified Graduate" status, students must satisfy the University Writing Skills Requirement and have satisfactorily completed STAT 1000 or equivalent, and a course in human biology or anatomy and physiology with a grade of "C" or better. For information on meeting the University Writing Skills Requirement, see the Testing Office website at www.csueastbay.edu/testing or call 510.885.3661.

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- SW 603 - Introduction to Social Welfare Research *Units: 4*
- SW 611 - Generalist Practice I *Units: 4*
- SW 612 - Generalist Practice II *Units: 4*
- SW 695A - Social Work Practicum I *Units: 4*
- SW 695B - Social Work Practicum II *Units: 4*

Elective Courses

Select one (1) course for 4 units from the following:

- SW 630 - The Recovery Model in Community Mental Health *Units: 4*
- SW 631 - Advanced Psychosocial Assessment and Diagnosis *Units: 4*

- SW 632 - Family Violence Across the Lifespan *Units: 4*
- SW 633 - Assessment and Treatment of Substance Abuse in Social Work Practice *Units: 4*
- SW 634 - Legal Issues in Social Work Practice *Units: 4*
- SW 697 - Issues in Social Work *Units: 1-4*

Capstone Requirement

Students have three choices for completing a capstone experience in the MSW program. The first choice is the Integrative Seminar, SW 693. This integrative seminar provides students with the opportunity to demonstrate mastery of the core student learning outcomes of the MSW program. Students, in cooperation with faculty and agency supervisors, complete an agency-focused project or research on a topic focused on social work practice and advocacy.

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Choose one (1) capstone experience for 4 units from below:

- SW 691 - University Thesis *Units: 4*
- SW 693 - Integrative Project *Units: 4*
- SW 699 - Departmental Thesis *Units: 4*

Concentrations

Students must select one (1) concentration for 20 units listed below:

- Social Work, M.S.W.: Children, Youth, and Families Concentration
- Social Work, M.S.W.: Community Mental Health Concentration

Community Mental Health Concentration

Concentration Requirements

Take the following 20 units of coursework to complete the concentration requirements:

- SW 622A - Advanced Practice I: Community Mental Health: Individuals and Families *Units: 4*
- SW 622B - Advanced Practice II: Community Mental Health: Groups, Organizations, and Communities *Units: 4*

- SW 689 - Community-Based Research in Social Work Practice *Units: 4*
- SW 695C - Social Work Practicum III *Units: 4*
- SW 695D - Social Work Practicum IV *Units: 4*

Other Graduate & Post-Baccalaureate Degree Requirements

In addition to departmental requirements, every student must also satisfy the University requirements for graduation as described throughout this catalog. These include the 70% unit residence requirement; the five-year rule on currency of subject matter; the minimum number of units in 600-level courses; the "C" minimum grade for each graduate course; the 3.00 cumulative grade point average; and the University Writing Skills Requirement.

Note: For information on meeting the University Writing Skills Requirement, see the Testing Office website at www.csueastbay.edu/testing or call (510) 885-3661.

Department Courses Listed by Course Type

Social Work Courses

Department of Social Work

Go to information for this department.

Courses

Social Work: Graduate

- • SW 600 - Human Behavior and the Social Environment *Units: 4*
- • SW 601 - Race, Gender, and Inequality *Units: 4*
- • SW 602 - Introduction to Social Welfare Policy *Units: 4*
- • SW 603 - Introduction to Social Welfare Research *Units: 4*
- • SW 611 - Generalist Practice I *Units: 4*
- • SW 612 - Generalist Practice II *Units: 4*
- • SW 621A - Advanced Practice I: Children, Youth, and Families: Individuals and Families *Units: 4*
- • SW 621B - Advanced Practice II: Children, Youth, and Families: Groups, Organizations, and Communities *Units: 4*
- • SW 622A - Advanced Practice I: Community Mental Health: Individuals and Families *Units: 4*
- • SW 622B - Advanced Practice II: Community Mental Health: Groups, Organizations, and Communities *Units: 4*
- • SW 630 - The Recovery Model in Community Mental Health *Units: 4*
- • SW 631 - Advanced Psychosocial Assessment and Diagnosis *Units: 4*
- • SW 632 - Family Violence Across the Lifespan *Units: 4*
- • SW 633 - Assessment and Treatment of Substance Abuse in Social Work Practice *Units: 4*
- • SW 634 - Legal Issues in Social Work Practice *Units: 4*
- • SW 689 - Community-Based Research in Social Work Practice *Units: 4*
- • SW 690 - Independent Study *Units: 1-4*
- • SW 691 - University Thesis *Units: 4*
- • SW 693 - Integrative Project *Units: 4*

- • SW 695A - Social Work Practicum I *Units: 4*
- • SW 695B - Social Work Practicum II *Units: 4*
- • SW 695C - Social Work Practicum III *Units: 4*
- • SW 695D - Social Work Practicum IV *Units: 4*
- • SW 697 - Issues in Social Work *Units: 1-4*
- • SW 699 - Departmental Thesis *Units: 4*

Department of Sociology

The Department Office is located on the 3rd Floor of the Meiklejohn Hall building, Room 3095

Office Hours: 8:00 a.m. - 5:00 p.m., Monday through Friday

Dept Phone: (510) 885-3173

Faculty

Professor Emeritus

Efren N. Padilla, Ph.D. Michigan State University

Professors

Patricia Jennings, Ph.D. University of Kentucky

Carl Stempel (Chair), Ph.D. University of Oregon

Associate Professors

Julie Beck, Ph.D. University of California, Santa Cruz

Will L. Johnson, Ph.D. University of California, Berkeley (FERP)

Assistant Professors

Duke Austin, Ph.D. University of Colorado at Boulder

Donovon Ceaser, Ph.D. Louisiana State University

Natalie Ingraham, Ph.D. University of California, San Francisco

Sukari Ivester, Ph.D. University of Chicago

Jean Lin, Ph.D. University of Chicago

Mission Statement

The mission of the B.A. program in Sociology is to provide a stimulating and nurturing learning atmosphere for a highly diverse group of students. The program seeks to have students develop and express a love of learning and a respect for a wide range of intellectual perspectives, including a variety of theories and scientific methodologies. We are dedicated to providing students with tools and opportunities to critically examine social life, including a wide range of social problems. Students learn about the workings of social institutions, patterns of group life, social change, and the social causes and consequences of human behavior.

About the Department

Use our university website link to learn more about what the Sociology Department has to offer.

- Faculty Office Hours
- Faculty Profiles
- Degree Progress Roadmap
- Thinking About Sociology?
- Career Guide
- Professional Resources
- Sociology Honor Society: Alpha Kappa Delta
- Faculty Employment
- Department News & Events

Bachelor

Sociology, B.A.

Sociology, B.A. Program (120 units)

Program Description

The mission of the B.A. program in Sociology is to provide a stimulating and cooperative learning atmosphere for a highly diverse group of students. The program seeks to foster a lifelong love of learning about the social, cultural, political, and economic institutions humans have created and the directions they are changing. The program's goal is for students to think deeply about ways social structures and processes influence individuals' lives and opportunities, and how individuals can contribute to building more inclusive and satisfying communities and organizations. The program's faculty members are dedicated to providing students with tools that will empower and prepare them to be active citizens in their families, communities, organizations, and workplaces, and to expand their understanding of community engagement to include national and global projects aimed at addressing larger social problems. The wide range of courses and flexible program structure prepare successful students to enter master's and doctoral programs in several fields including Sociology, Social Work, Anthropology, Law, Political Science, Counseling, Education, and Public Administration.

Students will increase their appreciation of the value of all human beings and a commitment to an inclusive and just society that addresses the needs of all groups of people. In acquiring a deep understanding of the structure of groups, organizations, and societies, and human interaction within these contexts, students develop their capacity for more personally rewarding and socially responsible participation and leadership in their families, their work, their communities, and society as a whole.

The Department of Sociology offers a wide range of courses that allow students to pursue different pathways depending on their interests and future plans. Students have a great deal of flexibility to take courses that fit their needs as there are groups of interrelated courses in these areas: 1. Preparation for Social Work and Counseling; 2. Culture and Society; 3. Social Inequality; 4. Sex, Gender, Family; 5. Global and Urban; 6. Institutions and Organizations; 7. Politics, Civic Engagement, Social Control.

Additional Programs: Minor in Sociology

Program Learning Outcomes:

- Students will demonstrate an ability to evaluate "knowledge" claims of sociological analyses by critically assessing their
 - 1) analytical framework,
 - 2) data collection techniques,
 - 3) sampling techniques, and
 - 4) data analyses used in empirical research projects.
- Students will demonstrate oral and written abilities to effectively communicate and engage in educated, open-minded discussions of diverse sociocultural beliefs, perspectives, and norms.
- Students will possess knowledge of cultural differences and an understanding of how power, privilege, and culture produce social inequalities and stigmatization, and how structures of domination are effectively challenged.
- Students will work collaboratively in diverse groups, learn to value civic engagement, and, when appropriate to their educational path, successfully engage in community service.
- Students will demonstrate knowledge of local, national, and global policies and practices that contribute to environmental degradation; the unequal distribution of the consequences of environmental degradation; and strategies for developing sustainable alternatives.
- Students will demonstrate an ability to critically read, interpret and synthesize abstract sociological arguments and theories, and use sociological theories and models to develop research questions.

Career Opportunities

Social Services • Counselors • Administrative Support • Management • Human Resources • Teachers • Librarians • Sales • Marketing • Social Science Research • Public Relations • Information Technology • Various other professions and preparation for admission to graduate programs in a variety of fields including, but not limited to Law, Sociology, Social Work, Public Administration.

Degree Requirements Unit-Outline

- A baccalaureate of arts degree requires a total of 120 units;
 - The Sociology major requirements consists of 42 units;
 - General Education (GE) & Graduation Requirements (GR) consists of 57 units;
 - Free Electives may consist of 21 units (*actual number of free elective units may depend on GE/GR units*).
- Note: It may be possible to double-count units within the graduation requirements or that a course may satisfy both a graduation requirement and a major requirement. Students should contact their program and AACE advisors for information.*

Sociology Major Requirements (42 units)

Core Courses

The following 14 units of core coursework are required:

- SOC 100 - Introduction to Sociology *Units: 3 ; G.E./G.R. Area: D1-3*
- STAT 100 - Elements of Statistics and Probability *Units: 3 ; G.E./G.R. Area: B4*
- SOC 300 - Sociological Theory *Units: 4*
- SOC 390 - Sociological Research Methods *Units: 4*

Diversity and Social Justice Coursework

Take two (2) courses for 8 units from the following list:

- SOC 320 - Social Inequalities *Units: 4 ; G.E./G.R. Area: Social Justice*
- SOC 325 - Race and Ethnic Relations *Units: 4 ; G.E./G.R. Area: Diversity*
- SOC 330 - Environmental Sociology *Units: 4*
- SOC 340 - Sociology of Gender *Units: 4 ; G.E./G.R. Area: Diversity*
- SOC 350 - Sociology of Immigration *Units: 4 ; G.E./G.R. Area: Diversity*
- SOC 355 - Global Society *Units: 4 ; G.E./G.R. Area: Sustainability*
- SOC 360 - Sociology of Sexualities *Units: 4*
- SOC 370 - Sociology of Education *Units: 4 ; G.E./G.R. Area: Diversity*
- SOC 380 - Sociology of Race, Crime and Justice *Units: 4*
- SOC 420 - Political Sociology *Units: 4 ; G.E./G.R. Area: Social Justice*
- SOC 433 - Community Engagement *Units: 4 ; G.E./G.R. Area: Social Justice*
- SOC 450 - Sociology of Food *Units: 4*
- SOC 475 - Sociology of Sport *Units: 4*
- SOC 480 - Global Brazil *Units: 4 ; G.E./G.R. Area: Social Justice*

Elective Courses

Students must complete a minimum of 16 units of upper division electives. After completing the Diversity and Social Justice coursework requirement, additional Diversity and Social Justice courses count as electives.

Note: Please see Errata for corrections to this course content.

- SOC 345 - American Society *Units: 3 ; G.E./G.R. Area: D4*
- SOC 365 - Deviance and Social Control *Units: 4*
- SOC 375 - Urban Sociology *Units: 4*
- SOC 385 - Childhood and Society *Units: 4*
- SOC 400 - Economy and Society *Units: 4 ; G.E./G.R. Area: Social Justice*
- SOC 403 - Sociology of the Family *Units: 4*
- SOC 405 - Sociology of Organizations *Units: 4*
- SOC 408 - Animals and Society *Units: 4*
- SOC 410 - Child Welfare Policy *Units: 4*

- SOC 413 - Medical Sociology *Units: 4 ; G.E./G.R. Area: Social Justice*
- SOC 415 - Popular Culture *Units: 4*
- SOC 418 - Sociology of Music *Units: 4*
- SOC 423 - Social Movements and Social Change *Units: 4*
- SOC 425 - Work and Professions *Units: 4*
- SOC 430 - Social Policy *Units: 4*
- SOC 435 - Social Psychology *Units: 4*
- SOC 440 - Alcohol and Drug Use *Units: 4*
- SOC 443 - Death and Dying *Units: 4*
- SOC 445 - Sociology of Emotions *Units: 4*
- SOC 455 - Juvenile Delinquency *Units: 4*
- SOC 460 - Marriage and Sex *Units: 4 ; G.E./G.R. Area: Diversity*
- SOC 465 - Mediation and Conflict Resolution *Units: 4*
- SOC 470 - Sociology of Travel and Tourism *Units: 4*
- SOC 485 - Policing and Society *Units: 4*
- SOC 490 - Independent Study *Units: 1-4*
- SOC 491 - Professional Development *Units: 1*
- * SOC 492 - Capstone Project Support *Units: 1*
- SOC 496 - Topics Seminar *Units: 4*
- SOC 497 - Issues in Sociology *Units: 4*

Capstone Requirement

The following capstone course for 4 units is required to complete the major requirements:

- SOC 499 - Sociology Capstone Project *Units: 4*

** Note: Students who want additional support while completing their capstone project should take SOC 492 as an elective when enrolled in SOC 499. SOC 492 is strongly recommended for students who do not earn a grade of B or higher in SOC 390.*

Other Undergraduate Degree Requirements

In addition to major requirements, every student must also complete the University's baccalaureate requirements for graduation, which are described in the Requirements, Exams & Testing chapter of this catalog.

Department Courses Listed by Course Type

Sociology and Social Services Courses

Department of Sociology

Go to information for this department.

Courses

Sociology

- • SOC 100 - Introduction to Sociology *Units: 3 ; G.E./G.R. Area: D1-3*
- • SOC 300 - Sociological Theory *Units: 4*
- • SOC 320 - Social Inequalities *Units: 4 ; G.E./G.R. Area: Social Justice*
- • SOC 325 - Race and Ethnic Relations *Units: 4 ; G.E./G.R. Area: Diversity*
- • SOC 330 - Environmental Sociology *Units: 4*
- • SOC 340 - Sociology of Gender *Units: 4 ; G.E./G.R. Area: Diversity*
- • SOC 345 - American Society *Units: 3 ; G.E./G.R. Area: D4*
- • SOC 350 - Sociology of Immigration *Units: 4 ; G.E./G.R. Area: Diversity*
- • SOC 355 - Global Society *Units: 4 ; G.E./G.R. Area: Sustainability*
- • SOC 360 - Sociology of Sexualities *Units: 4*
- • SOC 365 - Deviance and Social Control *Units: 4*
- • SOC 370 - Sociology of Education *Units: 4 ; G.E./G.R. Area: Diversity*
- • SOC 375 - Urban Sociology *Units: 4*
- • SOC 380 - Sociology of Race, Crime and Justice *Units: 4*
- • SOC 385 - Childhood and Society *Units: 4*
- • SOC 390 - Sociological Research Methods *Units: 4*
- • SOC 398 - Internship *Units: 1-3*
- • SOC 400 - Economy and Society *Units: 4 ; G.E./G.R. Area: Social Justice*
- • SOC 403 - Sociology of the Family *Units: 4*
- • SOC 405 - Sociology of Organizations *Units: 4*
- • SOC 408 - Animals and Society *Units: 4*
- • SOC 410 - Child Welfare Policy *Units: 4*
- • SOC 413 - Medical Sociology *Units: 4 ; G.E./G.R. Area: Social Justice*
- • SOC 415 - Popular Culture *Units: 4*
- • SOC 418 - Sociology of Music *Units: 4*
- • SOC 420 - Political Sociology *Units: 4 ; G.E./G.R. Area: Social Justice*
- • SOC 423 - Social Movements and Social Change *Units: 4*
- • SOC 425 - Work and Professions *Units: 4*
- • SOC 430 - Social Policy *Units: 4*
- • SOC 433 - Community Engagement *Units: 4 ; G.E./G.R. Area: Social Justice*
- • SOC 435 - Social Psychology *Units: 4*
- • SOC 440 - Alcohol and Drug Use *Units: 4*
- • SOC 443 - Death and Dying *Units: 4*
- • SOC 445 - Sociology of Emotions *Units: 4*
- • SOC 450 - Sociology of Food *Units: 4*
- • SOC 455 - Juvenile Delinquency *Units: 4*
- • SOC 460 - Marriage and Sex *Units: 4 ; G.E./G.R. Area: Diversity*
- • SOC 465 - Mediation and Conflict Resolution *Units: 4*
- • SOC 470 - Sociology of Travel and Tourism *Units: 4*
- • SOC 475 - Sociology of Sport *Units: 4*
- • SOC 478 - Sociology of Mega-Events *Units: 4*
- • SOC 480 - Global Brazil *Units: 4 ; G.E./G.R. Area: Social Justice*
- • SOC 481 - Contemporary Brazil-Study Abroad *Units: 4*
- • SOC 482 - Global Race and Ethnic Relations *Units: 4*
- • SOC 485 - Policing and Society *Units: 4*
- • SOC 490 - Independent Study *Units: 1-4*

- • SOC 491 - Professional Development *Units: 1*
- • SOC 492 - Capstone Project Support *Units: 1*
- • SOC 496 - Topics Seminar *Units: 4*
- • SOC 497 - Issues in Sociology *Units: 4*
- • SOC 499 - Sociology Capstone Project *Units: 4*

Minor

Sociology Minor

Minor Requirements (18-19 units)

Core Course

The following core course is required:

- SOC 100 - Introduction to Sociology *Units: 3 ; G.E./G.R. Area: D1-3*

Diversity Coursework

Choose one (1) of the following for 4 units:

- SOC 320 - Social Inequalities *Units: 4 ; G.E./G.R. Area: Social Justice*
- SOC 325 - Race and Ethnic Relations *Units: 4 ; G.E./G.R. Area: Diversity*
- SOC 330 - Environmental Sociology *Units: 4*
- SOC 340 - Sociology of Gender *Units: 4 ; G.E./G.R. Area: Diversity*

Electives

Take three (3) additional SOC 300 or 400 courses as electives. STAT 100 or any other statistics course may be substituted for one Sociology elective. Choose 11-12 units of elective coursework:

- SOC 300 - Sociological Theory *Units: 4*
- SOC 350 - Sociology of Immigration *Units: 4 ; G.E./G.R. Area: Diversity*
- SOC 355 - Global Society *Units: 4 ; G.E./G.R. Area: Sustainability*
- SOC 360 - Sociology of Sexualities *Units: 4*
- SOC 365 - Deviance and Social Control *Units: 4*
- SOC 370 - Sociology of Education *Units: 4 ; G.E./G.R. Area: Diversity*
- SOC 375 - Urban Sociology *Units: 4*
- SOC 380 - Sociology of Race, Crime and Justice *Units: 4*
- SOC 385 - Childhood and Society *Units: 4*
- SOC 400 - Economy and Society *Units: 4 ; G.E./G.R. Area: Social Justice*
- SOC 403 - Sociology of the Family *Units: 4*
- SOC 405 - Sociology of Organizations *Units: 4*
- SOC 408 - Animals and Society *Units: 4*

- SOC 410 - Child Welfare Policy *Units: 4*
- SOC 413 - Medical Sociology *Units: 4 ; G.E./G.R. Area: Social Justice*
- SOC 415 - Popular Culture *Units: 4*
- SOC 418 - Sociology of Music *Units: 4*
- SOC 420 - Political Sociology *Units: 4 ; G.E./G.R. Area: Social Justice*
- SOC 423 - Social Movements and Social Change *Units: 4*
- SOC 425 - Work and Professions *Units: 4*
- SOC 430 - Social Policy *Units: 4*
- SOC 433 - Community Engagement *Units: 4 ; G.E./G.R. Area: Social Justice*
- SOC 435 - Social Psychology *Units: 4*
- SOC 440 - Alcohol and Drug Use *Units: 4*
- SOC 443 - Death and Dying *Units: 4*
- SOC 445 - Sociology of Emotions *Units: 4*
- SOC 450 - Sociology of Food *Units: 4*
- SOC 455 - Juvenile Delinquency *Units: 4*
- SOC 460 - Marriage and Sex *Units: 4 ; G.E./G.R. Area: Diversity*
- SOC 465 - Mediation and Conflict Resolution *Units: 4*
- SOC 470 - Sociology of Travel and Tourism *Units: 4*
- SOC 475 - Sociology of Sport *Units: 4*
- SOC 480 - Global Brazil *Units: 4 ; G.E./G.R. Area: Social Justice*
- SOC 485 - Policing and Society *Units: 4*
- SOC 490 - Independent Study *Units: 1-4*
- SOC 491 - Professional Development *Units: 1*
- SOC 496 - Topics Seminar *Units: 4*
- SOC 497 - Issues in Sociology *Units: 4*

Please Note:

Sociology minors cannot take SOC 499, Sociology Capstone Project or the one (1) unit Capstone Project Support course, SOC 492.

Sociology minors cannot take SOC 345, American Society. (This course is for upper division Area D4 only.)

Department Courses Listed by Course Type

Sociology and Social Services Courses

Department of Sociology

Go to information for this department.

Courses

Sociology

- • SOC 100 - Introduction to Sociology *Units: 3 ; G.E./G.R. Area: D1-3*
- • SOC 300 - Sociological Theory *Units: 4*
- • SOC 320 - Social Inequalities *Units: 4 ; G.E./G.R. Area: Social Justice*
- • SOC 325 - Race and Ethnic Relations *Units: 4 ; G.E./G.R. Area: Diversity*
- • SOC 330 - Environmental Sociology *Units: 4*
- • SOC 340 - Sociology of Gender *Units: 4 ; G.E./G.R. Area: Diversity*
- • SOC 345 - American Society *Units: 3 ; G.E./G.R. Area: D4*
- • SOC 350 - Sociology of Immigration *Units: 4 ; G.E./G.R. Area: Diversity*
- • SOC 355 - Global Society *Units: 4 ; G.E./G.R. Area: Sustainability*
- • SOC 360 - Sociology of Sexualities *Units: 4*
- • SOC 365 - Deviance and Social Control *Units: 4*
- • SOC 370 - Sociology of Education *Units: 4 ; G.E./G.R. Area: Diversity*
- • SOC 375 - Urban Sociology *Units: 4*
- • SOC 380 - Sociology of Race, Crime and Justice *Units: 4*
- • SOC 385 - Childhood and Society *Units: 4*
- • SOC 390 - Sociological Research Methods *Units: 4*
- • SOC 398 - Internship *Units: 1-3*
- • SOC 400 - Economy and Society *Units: 4 ; G.E./G.R. Area: Social Justice*
- • SOC 403 - Sociology of the Family *Units: 4*
- • SOC 405 - Sociology of Organizations *Units: 4*
- • SOC 408 - Animals and Society *Units: 4*
- • SOC 410 - Child Welfare Policy *Units: 4*
- • SOC 413 - Medical Sociology *Units: 4 ; G.E./G.R. Area: Social Justice*
- • SOC 415 - Popular Culture *Units: 4*
- • SOC 418 - Sociology of Music *Units: 4*
- • SOC 420 - Political Sociology *Units: 4 ; G.E./G.R. Area: Social Justice*
- • SOC 423 - Social Movements and Social Change *Units: 4*
- • SOC 425 - Work and Professions *Units: 4*
- • SOC 430 - Social Policy *Units: 4*
- • SOC 433 - Community Engagement *Units: 4 ; G.E./G.R. Area: Social Justice*
- • SOC 435 - Social Psychology *Units: 4*
- • SOC 440 - Alcohol and Drug Use *Units: 4*
- • SOC 443 - Death and Dying *Units: 4*
- • SOC 445 - Sociology of Emotions *Units: 4*
- • SOC 450 - Sociology of Food *Units: 4*
- • SOC 455 - Juvenile Delinquency *Units: 4*
- • SOC 460 - Marriage and Sex *Units: 4 ; G.E./G.R. Area: Diversity*
- • SOC 465 - Mediation and Conflict Resolution *Units: 4*
- • SOC 470 - Sociology of Travel and Tourism *Units: 4*
- • SOC 475 - Sociology of Sport *Units: 4*
- • SOC 478 - Sociology of Mega-Events *Units: 4*
- • SOC 480 - Global Brazil *Units: 4 ; G.E./G.R. Area: Social Justice*
- • SOC 481 - Contemporary Brazil-Study Abroad *Units: 4*
- • SOC 482 - Global Race and Ethnic Relations *Units: 4*
- • SOC 485 - Policing and Society *Units: 4*
- • SOC 490 - Independent Study *Units: 1-4*
- • SOC 491 - Professional Development *Units: 1*
- • SOC 492 - Capstone Project Support *Units: 1*

- • SOC 496 - Topics Seminar *Units: 4*
- • SOC 497 - Issues in Sociology *Units: 4*
- • SOC 499 - Sociology Capstone Project *Units: 4*

Department of Speech, Language, and Hearing Sciences

Department Office is located in the Music & Business building, Room 1099

Office Hours: 8:00 a.m. - 5:00 p.m., Monday through Friday

Dept Phone: (510) 885-3233

Faculty

Associate Professors

Elena Dukhovny, Ph.D. University of California, Berkeley/San Francisco State University

Shubha P. Kashinath (Chair), Ph.D. Florida State University

Assistant Professors

Katrina Nicholas, Ph.D. University of Arizona

Pradeep Ramanathan, Ph.D. University of Minnesota

Mission Statement

The Department of Speech, Language, and Hearing Sciences provides students pre-professional and professional training in speech-language pathology and audiology, which is founded on state and national standards, evidence-based practice, research, and science and technology, to prepare them to serve persons with communication disorders and their families in an ethical and culturally competent manner.

About the Department

Use our university website link to learn more about what the Speech, Language, and Hearing Sciences Department has to offer.

- Accreditation
- Instructional Labs
- Forms
- Resources
- NSSLHA
- And more . . .

Bachelor

Speech Pathology and Audiology, B.S.

Speech Pathology and Audiology, B.S. Program (120 units)

Program Description

Speech pathology and audiology are clinical professions with a goal of screening, assessing and treating children and adults with disorders of speech, language, hearing, cognition and swallowing. Speech-language pathologists and audiologists have varied career interests and pursuits including working in healthcare, special education settings, in higher education, in public service, or private industry. Basic and applied research, codes of ethics, and a commitment to evidence-based and culturally competent practice form the backbone of these professions. These professions contribute to our understanding of typical and atypical communication, as well as the influence of culture on communication, and on strategies that enhance quality of life for persons affected by communication disorders and differences.

The majority of students select this degree program for professional training in speech pathology and/or audiology. Others select this major because it supports the development of a strong skill set in basic and applied science, professional conduct, and writing skills while engaging critical thinking, creativity, planning, and decision making. Coursework in the discipline draws from academic disciplines as biology, physics, psychology, statistics, linguistics, sociology, anthropology, medicine and law. The strength of the program is its rich, interdisciplinary nature that emphasizes a powerful combination of science with liberal arts, humanities, and the social sciences while providing clear depth in the major. Many of our undergraduate majors successfully pursue careers other than speech-language pathology, in fields of education, special education, health care administration, public health, social work, recreational therapy, applied behavior analysis, counseling, and case management.

Career Opportunities

Academic Coach/Tutor (for persons with disabilities) • Applied Behavior Analysis (ABA) Therapist • Audiologists • Clinical Consultant • Research Assistant • School Audiometrist • Speech-Language Pathologists (SLPs) • Speech-Language Pathology Assistant (SLPA) • Therapy Aide

Features

The department operates the Norma S. and Ray R. Rees Speech, Language and Hearing Clinic (named for Cal State East Bay President Emeritus Dr. Norma Rees), an on-campus facility that provides clinical services to persons seeking intervention for disorders and differences of speech, language, hearing, cognition, and swallowing. Undergraduate students enrolled in the program are able to observe, receive didactic and clinically relevant training, and do research in this fully-equipped facility. The program maintains a fully equipped speech and hearing sciences laboratory, an Augmentative and Alternative Communication laboratory, and an Early Social Communication Research Clinic for students who wish to pursue research interests. The award-winning Aphasia Treatment Program and the Conversation Club (for adults with autism) are special programs of our on-campus clinic.

The Bachelor of Science degree major in Speech Pathology provides students with a background in theoretical and clinical areas fundamental to the understanding and management of communicative disorders and differences, and serves as the pre-professional training necessary for admission to graduate studies in Speech-Language Pathology and/or Audiology.

Program Learning Outcomes

Students graduating with a B.S. in Speech Pathology and Audiology from California State University East Bay will be able to:

- Demonstrate the foundational knowledge for entry-level professional training in speech-language pathology and audiology
- Integrate knowledge from natural, behavioral and social sciences with contemporary theory and practice in speech-language pathology and audiology
- Demonstrate quantitative and critical thinking skills to address complex problems in Speech Pathology and Audiology
- Describe typical and atypical communicative and cognitive development and behavior across the lifespan
- Articulate the importance of cultural competence, ethics and advocacy in serving a diverse population
- Communicate ideas, contemporary perspectives and professional values clearly and persuasively in speech and writing
- Demonstrate skills in working collaboratively with peers, professionals and community partners

Degree Requirements Unit-Outline

- A baccalaureate of arts degree requires a total of 120 units:
- The major requirements consists of 54 units
- General Education (GE) & Graduation Requirements (GR) consists of 57 units;
- Free Electives may consist of 9-18 units (*actual number of free elective units may depend on how GE/GR major units might be double-counted*).

Note: It may be possible to double-count units within the graduation requirements or that a course may satisfy both a graduation requirement and a major requirement. Students should contact their program and AAC&E advisors for information.

Speech Pathology and Audiology Major Requirements (54 units)

Core Coursework

All students must take the following courses for 54 units:

Lower-division coursework:

- BIOL 101 - Introduction to Biology *Units: 3 ; G.E./G.R. Area: B2*
- BIOL 102 - Introduction to Biology Lab *Units: 1 ; G.E./G.R. Area: B3*
- BIOL 270 - Human Anatomy & Physiology I *Units: 4 ; G.E./G.R. Area: B2, B3*
- PSYC 100 - General Psychology *Units: 3 ; G.E./G.R. Area: D1-3*
- STAT 100 - Elements of Statistics and Probability *Units: 3 ; G.E./G.R. Area: B4*

Upper-division coursework:

- PHYS 304 - Acoustics *Units: 3 ; G.E./G.R. Area: B6*
- SPPA 300 - Communicative and Cognitive Development Across the Lifespan
Units: 3
- SPPA 301 - Anatomy and Physiology of Speech and Hearing *Units: 3*
- SPPA 302 - Phonetics and Phonological Disorders *Units: 3*
- SPPA 303 - Speech and Hearing Science *Units: 3*
- SPPA 304 - Introduction to Communication Disorders *Units: 3*

- SPPA 305 - Observation of Communication Disorders-Lab *Units: 1*
- SPPA 400 - Careers in Communication Disorders *Units: 2*
- SPPA 401 - Neuroanatomy and Neurophysiology of Speech, Language and Hearing *Units: 3*
- SPPA 402 - Audiology and Audiological Assessment *Units: 3*
- SPPA 403 - Audiometry Lab *Units: 1*
- SPPA 404 - Child Language Disorders *Units: 3*
- SPPA 405 - Multicultural Issues in Communicative Sciences and Disorders *Units: 3*
- SPPA 406 - Adult Neurocognitive Disorders *Units: 3*
- SPPA 407 - Clinical Methods and Diagnostics *Units: 3*

Other Undergraduate Degree Requirements

In addition to major requirements, every student must also complete the University's baccalaureate requirements for graduation, which are described in the Requirements, Exams & Testing chapter of this catalog.

Department Courses Listed by Course Type

Speech, Language, and Hearing Sciences Courses

Department of Speech, Language, and Hearing Sciences

Go to information for this department.

Courses

Speech Pathology and Audiology

- • SPPA 300 - Communicative and Cognitive Development Across the Lifespan *Units: 3*
- • SPPA 301 - Anatomy and Physiology of Speech and Hearing *Units: 3*
- • SPPA 302 - Phonetics and Phonological Disorders *Units: 3*
- • SPPA 303 - Speech and Hearing Science *Units: 3*
- • SPPA 304 - Introduction to Communication Disorders *Units: 3*
- • SPPA 305 - Observation of Communication Disorders-Lab *Units: 1*
- • SPPA 398 - Internship *Units: 1-3*
- • SPPA 400 - Careers in Communication Disorders *Units: 2*
- • SPPA 401 - Neuroanatomy and Neurophysiology of Speech, Language and Hearing *Units: 3*
- • SPPA 402 - Audiology and Audiological Assessment *Units: 3*
- • SPPA 403 - Audiometry Lab *Units: 1*
- • SPPA 404 - Child Language Disorders *Units: 3*
- • SPPA 405 - Multicultural Issues in Communicative Sciences and Disorders *Units: 3*
- • SPPA 406 - Adult Neurocognitive Disorders *Units: 3*
- • SPPA 407 - Clinical Methods and Diagnostics *Units: 3*
- • SPPA 490 - Independent Study *Units: 1-4*

- • SPPA 497 - Issues in Speech-Language Pathology *Units: 2*
- • SPPA 508 - Lifespan Development and Child Language Disorders *Units: 4*

Speech-Language Pathology: Graduate

- • SPPA 600 - Foundations of Clinical Practicum *Units: 2*
- • SPPA 601 - Assessment and Treatment of Child Language Disorders *Units: 4*
- • SPPA 602 - Adult Neurogenic Disorders of Language and Cognition *Units: 4*
- • SPPA 603 - Advanced Seminar on Articulation and Phonological Disorders *Units: 2*
- • SPPA 604 - Speech Science and Voice Disorders *Units: 4*
- • SPPA 605 - Dysphagia in Adults and Children *Units: 4*
- • SPPA 606 - Augmentative and Alternative Communication *Units: 3*
- • SPPA 607 - Advanced Seminar on Cultural and Linguistic Diversity *Units: 2*
- • SPPA 608 - Research Methods and Evidence-based Practice *Units: 3*
- • SPPA 609 - Motor Speech Disorders in Adults and Children *Units: 3*
- • SPPA 610 - Fluency Disorders *Units: 2*
- • SPPA 611 - Aural Rehabilitation *Units: 3*
- • SPPA 612 - Counseling in Speech-Language Pathology *Units: 2*
- • SPPA 690 - Independent Study *Units: 1-4*
- • SPPA 693 - Professional Practices *Units: 2*
- • SPPA 694 - Practicum: Introduction to Treatment *Units: 2*
- • SPPA 695 - Practicum: Treatment *Units: 2*
- • SPPA 696 - Practicum: Assessment *Units: 2*
- • SPPA 697 - Issues in Speech-Language Pathology *Units: 2*
- • SPPA 698 - Internship *Units: 6*
- • SPPA 699 - Department Thesis *Units: 2*

Credential

Speech-Language Pathology Services Credential

The Speech-Language Pathology Services Credential track prepares students to apply for California's Speech-Language Pathology Services Two-year Preliminary Credential and requires the completion of the M.S. degree in Speech-Language Pathology, including at least one school-based internship.

Credential Requirements

In addition to the completion of the Speech-Language Pathology, M.S. degree requirements, students must fulfill the *California Basic Skills Requirement*, have a *Certificate of Clearance* on file with the State of California, and complete the following course for 4 units:

- SPED 500 - Educating All Learners in Diverse Classrooms *Units: 4*

Department Courses Listed by Course Type

Speech, Language, and Hearing Sciences Courses

Department of Speech, Language, and Hearing Sciences

Go to information for this department.

Courses

Speech Pathology and Audiology

- • SPPA 300 - Communicative and Cognitive Development Across the Lifespan *Units: 3*
- • SPPA 301 - Anatomy and Physiology of Speech and Hearing *Units: 3*
- • SPPA 302 - Phonetics and Phonological Disorders *Units: 3*
- • SPPA 303 - Speech and Hearing Science *Units: 3*
- • SPPA 304 - Introduction to Communication Disorders *Units: 3*
- • SPPA 305 - Observation of Communication Disorders-Lab *Units: 1*
- • SPPA 398 - Internship *Units: 1-3*
- • SPPA 400 - Careers in Communication Disorders *Units: 2*
- • SPPA 401 - Neuroanatomy and Neurophysiology of Speech, Language and Hearing *Units: 3*
- • SPPA 402 - Audiology and Audiological Assessment *Units: 3*
- • SPPA 403 - Audiometry Lab *Units: 1*
- • SPPA 404 - Child Language Disorders *Units: 3*
- • SPPA 405 - Multicultural Issues in Communicative Sciences and Disorders *Units: 3*
- • SPPA 406 - Adult Neurocognitive Disorders *Units: 3*
- • SPPA 407 - Clinical Methods and Diagnostics *Units: 3*
- • SPPA 490 - Independent Study *Units: 1-4*
- • SPPA 497 - Issues in Speech-Language Pathology *Units: 2*
- • SPPA 508 - Lifespan Development and Child Language Disorders *Units: 4*

Speech-Language Pathology: Graduate

- • SPPA 600 - Foundations of Clinical Practicum *Units: 2*
- • SPPA 601 - Assessment and Treatment of Child Language Disorders *Units: 4*
- • SPPA 602 - Adult Neurogenic Disorders of Language and Cognition *Units: 4*
- • SPPA 603 - Advanced Seminar on Articulation and Phonological Disorders *Units: 2*
- • SPPA 604 - Speech Science and Voice Disorders *Units: 4*
- • SPPA 605 - Dysphagia in Adults and Children *Units: 4*
- • SPPA 606 - Augmentative and Alternative Communication *Units: 3*
- • SPPA 607 - Advanced Seminar on Cultural and Linguistic Diversity *Units: 2*
- • SPPA 608 - Research Methods and Evidence-based Practice *Units: 3*
- • SPPA 609 - Motor Speech Disorders in Adults and Children *Units: 3*
- • SPPA 610 - Fluency Disorders *Units: 2*
- • SPPA 611 - Aural Rehabilitation *Units: 3*
- • SPPA 612 - Counseling in Speech-Language Pathology *Units: 2*
- • SPPA 690 - Independent Study *Units: 1-4*
- • SPPA 693 - Professional Practices *Units: 2*
- • SPPA 694 - Practicum: Introduction to Treatment *Units: 2*
- • SPPA 695 - Practicum: Treatment *Units: 2*
- • SPPA 696 - Practicum: Assessment *Units: 2*
- • SPPA 697 - Issues in Speech-Language Pathology *Units: 2*
- • SPPA 698 - Internship *Units: 6*

- • SPPA 699 - Department Thesis *Units: 2*

Master

Speech-Language Pathology, M.S.

*** Please see the Errata chapter in this catalog for information concerning total units.*

Speech-Language Pathology, M.S. Program

Program Description

The Master of Science degree in Speech-Language Pathology is offered by the Department of Speech, Language and Hearing Sciences. The objective of this degree program is the professional preparation of each student, academically and clinically, for state licensure (CA), national certification in Speech-Language Pathology by the American Speech Language Hearing Association (ASHA), and the Speech-Language-Hearing Services credential to work in public school settings in California.

Speech-language pathology and Audiology are clinical professions, with goals of making effective communication a human right for all persons, and for competently serving children and adults with disorders and differences of speech, language, hearing, cognition, and swallowing.

This program has rigorous and balanced academic and clinical training. The Master's degree program is accredited by the American Speech-Language-Hearing Association and the California Commission on Teacher Credentialing (CCTC).

Career Opportunities

Students who complete the Master of Science degree in Speech-Language Pathology are eligible for ASHA certification, California state licensure, and in most cases the Speech-Language Pathology Services Credential to work in public schools. Speech-language pathologists work in a variety of settings including hospitals, skilled nursing facilities, university-based clinics, rehabilitation centers, community speech and hearing clinics, early intervention settings, public schools, and private practice.

Features

Clinical experiences are a key component in preparing students for licensure. The department operates the Norma S. and Ray R. Rees Speech, Language and Hearing Clinic, an on-campus facility that provides clinical services to individuals with speech, language, cognitive and hearing impairments from Bay Area communities. Students who are enrolled in the Speech-Language Pathology master's program are able to observe, receive training, and do research in this fully-equipped facility. Additional clinical training is conducted in off-site placements and internships in settings that meet each student's interests and training requirements, including hospitals, rehabilitation facilities, schools, and clinics.

Program Learning Outcomes

Students graduating with a Master of Science degree in Speech-Language Pathology from California State University East Bay will be able to:

- Competently screen, assess and treat communication, cognition and swallowing across the lifespan
- Demonstrate effective verbal and written communication with clients, their families, and other professionals
- Demonstrate proficiency in working collaboratively with peers, professionals and community partners
- Evaluate, integrate and apply scientific evidence, clinical expertise and client values for optimal service delivery
- Uphold the highest ethical professional standards, including recognition of one's professional competence
- Demonstrate commitment to acquire cultural competence and to advocate for those affected by communicative, cognitive and swallowing disorders

Admission Requirements

Students with a baccalaureate degree in any subject from an accredited college or university may apply. Foundational coursework minimum requirements, which can be completed through a baccalaureate degree, post-baccalaureate coursework, or after admission, include content in:

- Anatomy and Physiology of Speech and Hearing
- Phonetics/Phonological Disorders
- Child Language Development/Disorders
- Speech and Hearing Science
- Clinical Observation (25 hours)
- Neuroanatomy/Neurophysiology and Adult Neurocognitive Disorders
- Audiology/Audiometry
- Clinical Methods/Diagnostics

Application for admission includes two parts:

- Apply to the university directly at CAL STATE APPLY,
- Apply to the department, which typically includes a department application form, a statement of purpose, a resume of applicable experience, three letters of recommendation, GRE scores, transcripts of all colleges attended, and select pages from the CAL STATE APPLY application summary. A personal interview may also be held. Links to both university and department application processes are available on the department website.

There are three categories of student status while pursuing the degree:

"Conditionally Classified" Status

Students are in "Conditionally Classified" status when they have been admitted to the M.S. in Speech-Language Pathology degree program, but have not yet completed the requirements for "Classified Graduate" status. All graduate students are admitted in "conditionally classified" status.

"Classified Graduate" Status

Students obtain "Classified Graduate" status when they:

- have completed foundational coursework in communication disorders corresponding in scope with the baccalaureate degree in speech-language pathology offered at Cal State East Bay,
- have shown evidence of meeting essential functions required for the profession,
- have completed SLHS 694 and 695 with a grade of "B" or better,
- have fulfilled the University Writing Skills Requirement.

Advancement to Candidacy

Students reach "Advancement to Candidacy" status if they:

- maintain a 3.0 grade point average in all graduate work completed,
- complete ASHA Certificate of Clinical Competence requirements in the areas of the biological sciences, physical sciences, statistics, and social/behavior sciences.

Speech-Language Pathology Degree Requirements (66 units)**

Required Core Courses

The **46 total units** of the program core includes 42 units of SLP coursework plus 4 units of required coursework for state-level credentialing with the CA CTC offered by the Educational Psychology department (SPED 500). This breadth of academic coursework covers current professional practice and curricular standards, required for the program to retain its national accreditation (CAA) and state-level accreditation (CTC).

- SPED 500 - Educating All Learners in Diverse Classrooms *Units: 4*
- SPPA 600 - Foundations of Clinical Practicum *Units: 2*
- SPPA 601 - Assessment and Treatment of Child Language Disorders *Units: 4*
- SPPA 602 - Adult Neurogenic Disorders of Language and Cognition *Units: 4*
- SPPA 603 - Advanced Seminar on Articulation and Phonological Disorders *Units: 2*
- SPPA 604 - Speech Science and Voice Disorders *Units: 4*
- SPPA 605 - Dysphagia in Adults and Children *Units: 4*
- SPPA 606 - Augmentative and Alternative Communication *Units: 3*
- SPPA 607 - Advanced Seminar on Cultural and Linguistic Diversity *Units: 2*
- SPPA 608 - Research Methods and Evidence-based Practice *Units: 3*
- SPPA 609 - Motor Speech Disorders in Adults and Children *Units: 3*
- SPPA 610 - Fluency Disorders *Units: 2*
- SPPA 611 - Aural Rehabilitation *Units: 3*
- SPPA 612 - Counseling in Speech-Language Pathology *Units: 2*
- SPPA 693 - Professional Practices *Units: 2*
- SPPA 697 - Issues in Speech-Language Pathology *Units: 2*

Required Clinical Practicum

The **20 total units** of Clinical Practicum includes 6 units of Treatment, 2 units of Assessment, and 2 off-campus clinical internships (in two different settings) for 6 units each.

- SPPA 694 - Practicum: Introduction to Treatment *Units: 2*
 - SPPA 696 - Practicum: Assessment *Units: 2*
- Students should take each of the following two courses twice to complete 16 units:
- SPPA 695 - Practicum: Treatment *Units: 2 (x2)*
 - SPPA 698 - Internship *Units: 6 (x2)*

Capstone Requirement

All candidates for the MS degree must meet the capstone requirements for 0-2 units. Students must pass the Master's Comprehensive exam OR complete an oral presentation of a finished Master's thesis or project, which demonstrates eligibility for clinical licensure and certification in Speech Language Pathology. If thesis is selected as the capstone requirement, thesis units may substitute for the elective course unit requirement in the graduate program as determined by the thesis advisor.

- SPPA 699 - Department Thesis *Units: 2*
- Comprehensive Exam

Other Graduate & Post-Baccalaureate Degree Requirements

In addition to departmental requirements, every student must also satisfy the University requirements for graduation as described throughout this catalog. These include the 70% unit residence requirement; the five-year rule on currency of subject matter; the minimum number of units in 600-level courses; the "C" minimum grade for each graduate course; the 3.00 cumulative grade point average; and the University Writing Skills Requirement.

Note: For information on meeting the University Writing Skills Requirement, see the Testing Office website at www.csueastbay.edu/testing or call (510) 885-3661.

Department Courses Listed by Course Type

Speech, Language, and Hearing Sciences Courses

Department of Speech, Language, and Hearing Sciences

Go to information for this department.

Courses

Speech Pathology and Audiology

- • SPPA 300 - Communicative and Cognitive Development Across the Lifespan *Units: 3*
- • SPPA 301 - Anatomy and Physiology of Speech and Hearing *Units: 3*
- • SPPA 302 - Phonetics and Phonological Disorders *Units: 3*
- • SPPA 303 - Speech and Hearing Science *Units: 3*
- • SPPA 304 - Introduction to Communication Disorders *Units: 3*
- • SPPA 305 - Observation of Communication Disorders-Lab *Units: 1*
- • SPPA 398 - Internship *Units: 1-3*
- • SPPA 400 - Careers in Communication Disorders *Units: 2*

- • SPPA 401 - Neuroanatomy and Neurophysiology of Speech, Language and Hearing *Units: 3*
- • SPPA 402 - Audiology and Audiological Assessment *Units: 3*
- • SPPA 403 - Audiometry Lab *Units: 1*
- • SPPA 404 - Child Language Disorders *Units: 3*
- • SPPA 405 - Multicultural Issues in Communicative Sciences and Disorders *Units: 3*
- • SPPA 406 - Adult Neurocognitive Disorders *Units: 3*
- • SPPA 407 - Clinical Methods and Diagnostics *Units: 3*
- • SPPA 490 - Independent Study *Units: 1-4*
- • SPPA 497 - Issues in Speech-Language Pathology *Units: 2*
- • SPPA 508 - Lifespan Development and Child Language Disorders *Units: 4*

Speech-Language Pathology: Graduate

- • SPPA 600 - Foundations of Clinical Practicum *Units: 2*
- • SPPA 601 - Assessment and Treatment of Child Language Disorders *Units: 4*
- • SPPA 602 - Adult Neurogenic Disorders of Language and Cognition *Units: 4*
- • SPPA 603 - Advanced Seminar on Articulation and Phonological Disorders *Units: 2*
- • SPPA 604 - Speech Science and Voice Disorders *Units: 4*
- • SPPA 605 - Dysphagia in Adults and Children *Units: 4*
- • SPPA 606 - Augmentative and Alternative Communication *Units: 3*
- • SPPA 607 - Advanced Seminar on Cultural and Linguistic Diversity *Units: 2*
- • SPPA 608 - Research Methods and Evidence-based Practice *Units: 3*
- • SPPA 609 - Motor Speech Disorders in Adults and Children *Units: 3*
- • SPPA 610 - Fluency Disorders *Units: 2*
- • SPPA 611 - Aural Rehabilitation *Units: 3*
- • SPPA 612 - Counseling in Speech-Language Pathology *Units: 2*
- • SPPA 690 - Independent Study *Units: 1-4*
- • SPPA 693 - Professional Practices *Units: 2*
- • SPPA 694 - Practicum: Introduction to Treatment *Units: 2*
- • SPPA 695 - Practicum: Treatment *Units: 2*
- • SPPA 696 - Practicum: Assessment *Units: 2*
- • SPPA 697 - Issues in Speech-Language Pathology *Units: 2*
- • SPPA 698 - Internship *Units: 6*
- • SPPA 699 - Department Thesis *Units: 2*

Department of Statistics and Biostatistics

The Department Office is located on the 2nd Floor of the North Science (SC-N) building, Room 229.

Open 9:00 a.m. - 6:00 p.m., Monday - Thursday, and 9:00 a.m. - Noon on Fridays.

Dept. Phone: (510) 885-3435

Faculty

Professor Emerita

Lynn Eudey, Ph.D. University of California, Berkeley

Professors

Shenghua (Kelly) Fan, Ph.D. University of Minnesota

Eric A. Suess, Ph.D. University of California, Davis

Mitchell R. Watnik, Ph.D. University of California, Davis

YanYan Zhou, Ph.D. University of Maryland

Associate Professors

Ayona Chatterjee, Ph.D. University of Edinburgh (United Kingdom)

Joshua D. Kerr (Chair), Ph.D. University of California, Davis

Assistant Professors

Eric Fox, Ph.D. University of California, Los Angeles

Li Zou, Ph.D. State University of New York

Graduate Coordinator: Lynn Eudey

Department Statement

There are many job opportunities locally for Statisticians in many diverse areas of application, such as Actuarial Science, Biostatistics, Bioinformatics, Data Analysis, Data Science, Medical Statistics, Pharmaceutical, Biotech, Finance, Banking, Government, Education, Consulting, and many others. Students are encouraged to consider the fields of Statistics and Biostatistics as a program of study, whether graduate or undergraduate. Many of the Department's undergraduate students are double-majors. Computer Science, Math, and Psychology majors, in particular, have found double-majoring with Statistics to be valuable in getting a job or pursuing higher degrees.

About the Department

Use our university website link to learn more about what the Statistics and Biostatistics Department has to offer.

- Scholarships
- Actuarial Science
- Biostatistics (PSM)
- Statistics Organizations
- Resources
- And more...

Bachelor

Statistics, B.S.

Statistics, B.S. Program (120 units)

Program Description

Statistics is the science of learning from data. Majors study collecting and analyzing a variety of data, and reporting the results of the analysis. Designs of Experiments are used to plan data collection in experimental settings, such as in medical research. Surveys are used to collect opinions from samples in populations, such as in political polling. Observational data is collected commonly by business as part of standard business processes, such as in website analytics. Statistical methods are used to process data into easily read visual displays, and into summary statistics for interpretation, decision making, and reporting.

Statistics has been a rapidly growing science for many years and has many uses in other fields, such as Business Analytics, Machine Learning, Visualization, Econometrics, Biostatistics, Psychology, and many others. Statistics is widely used by businesses and government organizations to understand changes in the economy and to make forecasts about future events based on past patterns in their data. Statistics is used to model relationships between variables and to predict future values of output variables from input variables. Statistical methods draw accurate inferences about large groups on the basis of a representative sample from the group or population. Descriptive Statistics are used to summarize and visualize the collected data.

The methodology of statistics can be adapted to many types of problems. Due to the extensive development of computers and the collection of large databases, the need for statistical techniques has greatly expanded in recent years. A society like ours, which has become increasingly dependent on its data, has a growing need for statisticians.

Program Learning Outcomes

Students graduating with a B.S. in Statistics from Cal State East Bay will be able to:

- Apply basic computational skills in descriptive statistics and data visualization, hypothesis testing, confidence intervals, modeling and error analysis, including the use of large data sets.
- Analyze data using appropriate software, including cloud-based software, and to interpret results covering descriptive statistics and data visualization, hypothesis testing, confidence intervals, modeling and error analysis, including the use of large data sets.
- Communicate to others results involving descriptive statistics and data visualization, hypothesis testing, confidence intervals, modeling and error analysis using reproducible research best practices.
- Acquire data using methods of design of experiments, survey sampling, or observational data, including data scraping and data wrangling from open source data and free data sources.

Career Opportunities

Actuary • Biostatistician • Business Analyst • Census Analyst • Credit Analyst • Customer Analytics Specialist • Data Analyst • Data Manager • Data Scientist • Data Visualization Designer • Educational Researcher • Financial Modeler • Information Systems Analyst • Marketing Analytics Specialist • Quality

Control Specialist • R programmer • Research Statistician • Sales Analyst • Statistical Programmer • Sports Analyst • Statistician • Survey Designer • Systems Analyst • Teacher

Preparation

- For Advanced Placement course equivalencies, see the Registration chapter.
- The theory of statistics rests on a mathematical foundation. Even for statisticians whose primary interest is in applications, challenging mathematical problems arise continually. Calculus and computer programming are required for the major. An elementary course in linear algebra is highly recommended.
- Courses in areas to which statistics is applied will also be helpful. Examples are business, biology, chemistry, geography, social sciences, psychology, and physics.
- Community college students are advised to complete the lower division requirements for the major before transferring to Cal State East Bay.

Credit/No Credit Courses

It is the policy of the department that no course taken on a "CR/NC" basis may be applied towards any of the Upper Division Core requirements. Individual petitions for waiver of this policy will be treated according to the same procedures as petitions to waive other degree requirements.

Double Major

A knowledge of statistical methods is of increasing importance to students in many areas, especially the physical, computing, decision, environmental, biological, and social sciences and administrative studies (including business, health care, and education). A second major in statistics along with a major in one of these areas may result in better preparation for employment or graduate study. The following three factors combine to make such a double major feasible in many cases:

- The Statistics major allows for a relatively large number of unrestricted elective units. The student may elect courses required for the other major among these.
- Up to fifteen units in certain areas outside of Statistics may be applied toward the Statistics degree. (See Area of Emphasis requirement, 4.)
- Some other majors require Statistics courses that also count towards the Statistics major (e.g., STAT 310, STAT 303, STAT 320, STAT 330, etc.).
- Contact an advisor to develop a clear plan for completing the major.

Degree Requirements Unit-Outline

- A baccalaureate of arts degree requires a total of 120 units:
 - The major requirements consists of 48-49 units
 - General Education (GE) & Graduation Requirements (GR) consists of 57 units;
 - Free Electives may consist of 14-15 units (*actual number of free elective units may depend on GE/GR units*).
- Note: It may be possible to double-count units within the graduation requirements or a course may satisfy both a graduation requirement and a major requirement. Students should contact their program and AACE advisors for information.*

Statistics Major Requirements (48-49 units)

Please consult an advisor in the department for clarification and interpretation of the major requirements.

Introductory Core

Basic lower-division requirements for 9-10 units.

Take the following course:

- **CS 100 - Programming for Everyone** *Units: 3*

Select one (1) of the following (CS 200 recommended for Data Science Concentration):

- **MATH 130 - Calculus I** *Units: 4 ; G.E./G.R. Area: B4*
- **CS 200 - Advanced Programming for Everyone** *Units: 3*

Select one (1) course from the following (STAT 315 recommended for Data Science Concentration):

- **MATH 131 - Calculus II** *Units: 3*
- **STAT 303 - Statistical Methods in Biology** *Units: 3*
- **STAT 310 - Statistical Methods in the Social Sciences** *Units: 3*
- **STAT 315 - Exploring and Analyzing Data** *Units: 3*

Advanced Core

The following courses for 24 units are required as outlined below:

Take all of the following:

- **STAT 330 - Statistical Inference** *Units: 3*
- **STAT 331 - Introduction to Analysis of Variance** *Units: 3*
- **STAT 432 - Introduction to Linear Regression and Logistic Regression** *Units: 3*
- **STAT 495 - Data Analysis with SAS** *Units: 3*

Select one (1) of the following (STAT 321 recommended for Data Science Concentration):

- **STAT 320 - Introduction to Probability Theory I** *Units: 3*
- **STAT 321 - Probability Through Simulation** *Units: 3*

Select three (3) Elective Courses from the following:

- **STAT 351 - Sampling Procedures for Surveys** *Units: 3*
- **STAT 450 - Introduction to R for Data Science** *Units: 3*
- **STAT 451 - Introduction to Data Visualization** *Units: 3*
- **STAT 452 - Introduction to Statistical Learning** *Units: 3*
- **STAT 460 - Advanced Statistical Package Usage** *Units: 3*
- **STAT 473 - Introduction to Nonparametric Statistics** *Units: 3*
- **STAT 474 - Introduction to Time Series and Forecasting** *Units: 3*
- **STAT 475 - Introduction to Stochastic Processes** *Units: 3*
- **STAT 481 - Bayesian Statistics** *Units: 3*

Emphasis Coursework

Only students NOT completing the Data Science concentration are required to complete an emphasis area. Complete one (1) of the following for 15 units:

- Fifteen (15) units of approved Statistics courses in addition to those used for the requirements above. MATH 230 may be included in these 15 units and is especially recommended for students wishing to apply to the master's degree program in Statistics.

OR

- Fifteen (15) units of approved Mathematics courses in addition to those used for the requirements above. MATH 230 must be included in these 15 units.

OR

- Fifteen (15) units of approved Computer Science courses in addition to those used for the requirements above.

OR

- Fifteen (15) units of approved courses in an approved area. Areas currently approved include the following: Anthropology, Biological Sciences, Business Administration, Chemistry, Economics, Geography, Geological Sciences, Health Sciences, Physics, Psychology, Sociology. For other areas, contact the Department of Statistics and Biostatistics. To gain departmental approval, these courses must include at least one upper division course and be judged to constitute a coherent program of study. (With the approval of the department, upper division Statistics courses not counted above, except STAT 310 and STAT 303 may be applied toward these fifteen units.)

Other Undergraduate Degree Requirements

In addition to major requirements, every student must also complete the University's baccalaureate requirements for graduation, which are described in the Requirements, Exams & Testing chapter of this catalog.

Department Courses Listed by Course Type

Statistics and Biostatistics Courses

Department of Statistics and Biostatistics

Go to information for this department.

Courses

Biostatistics: Graduate

- • BSTA 661 - Categorical Data Analysis *Units: 2*
- • BSTA 662 - Survival Analysis *Units: 2*
- • BSTA 663 - Clinical Trials in the Pharmaceutical and Biomedical Industries *Units: 2*
- • BSTA 668 - Longitudinal Data Analysis *Units: 2*

Statistics

- • STAT 100 - Elements of Statistics and Probability *Units: 3 ; G.E./G.R. Area: B4*
- • STAT 100A - Statistics Principles *Units: 1*
- • STAT 101 - Statistics in Everyday Life *Units: 3 ; G.E./G.R. Area: B4*
- • STAT 101A - Everyday Statistics Principles *Units: 1*
- • STAT 110 - Elements of Statistics for Business and Economics *Units: 3*
- • STAT 303 - Statistical Methods in Biology *Units: 3*
- • STAT 303A - Biostatistics for Health Science *Units: 3*
- • STAT 305 - Statistics: From Data to Decisions *Units: 3*
- • STAT 310 - Statistical Methods in the Social Sciences *Units: 3*
- • STAT 311 - Data Analysis using Statistical Packages *Units: 3*
- • STAT 315 - Exploring and Analyzing Data *Units: 3*
- • STAT 316 - Statistics and Probability for Science and Engineering *Units: 3*
- • STAT 320 - Introduction to Probability Theory I *Units: 3*
- • STAT 321 - Probability Through Simulation *Units: 3*
- • STAT 330 - Statistical Inference *Units: 3*
- • STAT 331 - Introduction to Analysis of Variance *Units: 3*
- • STAT 351 - Sampling Procedures for Surveys *Units: 3*
- • STAT 401 - Analysis of Variance for Psychology *Units: 3 ; G.E./G.R. Area: D4*
- • STAT 432 - Introduction to Linear Regression and Logistic Regression *Units: 3*
- • STAT 450 - Introduction to R for Data Science *Units: 3*
- • STAT 451 - Introduction to Data Visualization *Units: 3*
- • STAT 452 - Introduction to Statistical Learning *Units: 3*
- • STAT 460 - Advanced Statistical Package Usage *Units: 3*
- • STAT 473 - Introduction to Nonparametric Statistics *Units: 3*
- • STAT 474 - Introduction to Time Series and Forecasting *Units: 3*
- • STAT 475 - Introduction to Stochastic Processes *Units: 3*
- • STAT 481 - Bayesian Statistics *Units: 3*
- • STAT 490 - Independent Study *Units: 1-4*
- • STAT 495 - Data Analysis with SAS *Units: 3*
- • STAT 497 - Issues in Statistics *Units: 3*
- • STAT 498 - Internship *Units: 1-3*

Statistics: Graduate

- • STAT 620 - Probability and Statistical Theory *Units: 4*
- • STAT 630 - Statistical Methods *Units: 4*
- • STAT 631 - Analysis of Variance Models *Units: 4*
- • STAT 632 - Linear and Logistic Regression *Units: 4*
- • STAT 640 - Advanced Statistical Theory *Units: 4*
- • STAT 641 - Bootstrapping Methods *Units: 2*
- • STAT 650 - Advanced R for Data Science *Units: 2*
- • STAT 651 - Data Visualization *Units: 2*
- • STAT 652 - Statistical Learning *Units: 2*
- • STAT 653 - Statistical Natural Language Processing *Units: 2*
- • STAT 654 - Introduction to Applied Deep Learning *Units: 2*
- • STAT 660 - Advanced SAS I *Units: 2*
- • STAT 661 - Categorical Data Analysis *Units: 2*
- • STAT 671 - Advanced JMP *Units: 2*
- • STAT 672 - Advanced Multivariate Statistics *Units: 2*

- • STAT 673 - Nonparametric Statistical Methods *Units: 2*
- • STAT 674 - Time Series *Units: 2*
- • STAT 675 - Advanced Stochastic Processes and Simulation *Units: 2*
- • STAT 676 - Advanced Probability *Units: 4*
- • STAT 681 - Bayesian Statistics *Units: 2*
- • STAT 690 - Independent Study *Units: 1-4*
- • STAT 692 - Comprehensive Exam Review *Units: 2*
- • STAT 694 - Applied Research in Statistics and Biostatistics *Units: 1-4*
- • STAT 697 - Issues in Statistics *Units: 3*
- • STAT 698 - Internship *Units: 1-3*

Statistics, B.S.: Data Science Concentration

Statistics, B.S. Program (120 units)

Program Description

Statistics is the science of learning from data. Majors study collecting and analyzing a variety of data, and reporting the results of the analysis. Designs of Experiments are used to plan data collection in experimental settings, such as in medical research. Surveys are used to collect opinions from samples in populations, such as in political polling. Observational data is collected commonly by business as part of standard business processes, such as in website analytics. Statistical methods are used to process data into easily read visual displays, and into summary statistics for interpretation, decision making, and reporting.

Statistics has been a rapidly growing science for many years and has many uses in other fields, such as Business Analytics, Machine Learning, Visualization, Econometrics, Biostatistics, Psychology, and many others. Statistics is widely used by businesses and government organizations to understand changes in the economy and to make forecasts about future events based on past patterns in their data. Statistics is used to model relationships between variables and to predict future values of output variables from input variables. Statistical methods draw accurate inferences about large groups on the basis of a representative sample from the group or population. Descriptive Statistics are used to summarize and visualize the collected data.

The methodology of statistics can be adapted to many types of problems. Due to the extensive development of computers and the collection of large databases, the need for statistical techniques has greatly expanded in recent years. A society like ours, which has become increasingly dependent on its data, has a growing need for statisticians.

Program Learning Outcomes

Students graduating with a B.S. in Statistics from Cal State East Bay will be able to:

- Apply basic computational skills in descriptive statistics and data visualization, hypothesis testing, confidence intervals, modeling and error analysis, including the use of large data sets.
- Analyze data using appropriate software, including cloud-based software, and to interpret results covering descriptive statistics and data visualization, hypothesis testing, confidence intervals, modeling and error analysis, including the use of large data sets.

- Communicate to others results involving descriptive statistics and data visualization, hypothesis testing, confidence intervals, modeling and error analysis using reproducible research best practices.
- Acquire data using methods of design of experiments, survey sampling, or observational data, including data scraping and data wrangling from open source data and free data sources.

Career Opportunities

Actuary • Biostatistician • Business Analyst • Census Analyst • Credit Analyst • Customer Analytics Specialist • Data Analyst • Data Manager • Data Scientist • Data Visualization Designer • Educational Researcher • Financial Modeler • Information Systems Analyst • Marketing Analytics Specialist • Quality Control Specialist • R programmer • Research Statistician • Sales Analyst • Statistical Programmer • Sports Analyst • Statistician • Survey Designer • Systems Analyst • Teacher

Preparation

- For Advanced Placement course equivalencies, see the Registration chapter.
- The theory of statistics rests on a mathematical foundation. Even for statisticians whose primary interest is in applications, challenging mathematical problems arise continually. Calculus and computer programming are required for the major. An elementary course in linear algebra is highly recommended.
- Courses in areas to which statistics is applied will also be helpful. Examples are business, biology, chemistry, geography, social sciences, psychology, and physics.
- Community college students are advised to complete the lower division requirements for the major before transferring to Cal State East Bay.

Credit/No Credit Courses

It is the policy of the department that no course taken on a "CR/NC" basis may be applied towards any of the Upper Division Core requirements. Individual petitions for waiver of this policy will be treated according to the same procedures as petitions to waive other degree requirements.

Double Major

A knowledge of statistical methods is of increasing importance to students in many areas, especially the physical, computing, decision, environmental, biological, and social sciences and administrative studies (including business, health care, and education). A second major in statistics along with a major in one of these areas may result in better preparation for employment or graduate study. The following three factors combine to make such a double major feasible in many cases:

- The Statistics major allows for a relatively large number of unrestricted elective units. The student may elect courses required for the other major among these.
- Up to fifteen units in certain areas outside of Statistics may be applied toward the Statistics degree. (See Area of Emphasis requirement, 4.)
- Some other majors require Statistics courses that also count towards the Statistics major (e.g., STAT 310, STAT 303, STAT 320, STAT 330, etc.).
- Contact an advisor to develop a clear plan for completing the major.

Degree Requirements Unit-Outline

- A baccalaureate of arts degree requires a total of 120 units;
- The major requirements consists of 48-49 units
- General Education (GE) & Graduation Requirements (GR) consists of 57 units;
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Note: It may be possible to double-count units within the graduation requirements or a course may satisfy both a graduation requirement and a major requirement. Students should contact their program and AACE advisors for information.

Statistics Major Requirements (48-49 units)

Please consult an advisor in the department for clarification and interpretation of the major requirements.

Introductory Core

Basic lower-division requirements for 9-10 units.

Take the following course:

- **CS 100 - Programming for Everyone** *Units: 3*

Select one (1) of the following (CS 200 recommended for Data Science Concentration):

- **MATH 130 - Calculus I** *Units: 4 ; G.E./G.R. Area: B4*
- **CS 200 - Advanced Programming for Everyone** *Units: 3*

Select one (1) course from the following (STAT 315 recommended for Data Science Concentration):

- **MATH 131 - Calculus II** *Units: 3*
- **STAT 303 - Statistical Methods in Biology** *Units: 3*
- **STAT 310 - Statistical Methods in the Social Sciences** *Units: 3*
- **STAT 315 - Exploring and Analyzing Data** *Units: 3*

Advanced Core

The following courses for 24 units are required as outlined below:

Take all of the following:

- **STAT 330 - Statistical Inference** *Units: 3*
- **STAT 331 - Introduction to Analysis of Variance** *Units: 3*
- **STAT 432 - Introduction to Linear Regression and Logistic Regression** *Units: 3*
- **STAT 495 - Data Analysis with SAS** *Units: 3*

Select one (1) of the following (STAT 321 recommended for Data Science Concentration):

- **STAT 320 - Introduction to Probability Theory I** *Units: 3*
- **STAT 321 - Probability Through Simulation** *Units: 3*

Select three (3) Elective Courses from the following:

- **STAT 351 - Sampling Procedures for Surveys** *Units: 3*
- **STAT 450 - Introduction to R for Data Science** *Units: 3*

- STAT 451 - Introduction to Data Visualization *Units: 3*
- STAT 452 - Introduction to Statistical Learning *Units: 3*
- STAT 460 - Advanced Statistical Package Usage *Units: 3*
- STAT 473 - Introduction to Nonparametric Statistics *Units: 3*
- STAT 474 - Introduction to Time Series and Forecasting *Units: 3*
- STAT 475 - Introduction to Stochastic Processes *Units: 3*
- STAT 481 - Bayesian Statistics *Units: 3*

Data Science Concentration

Complete fifteen (15) units of approved courses in Computer Science and/or Statistics. If not already used as part of the "3 electives" in the Advanced Core, the following courses must be used here:

- STAT 450 - Introduction to R for Data Science *Units: 3*
- STAT 451 - Introduction to Data Visualization *Units: 3*
- STAT 452 - Introduction to Statistical Learning *Units: 3*

Other Undergraduate Degree Requirements

In addition to major requirements, every student must also complete the University's baccalaureate requirements for graduation, which are described in the Requirements, Exams & Testing chapter of this catalog.

Department Courses Listed by Course Type

Statistics and Biostatistics Courses

Department of Statistics and Biostatistics

Go to information for this department.

Courses

Biostatistics: Graduate

- • BSTA 661 - Categorical Data Analysis *Units: 2*
- • BSTA 662 - Survival Analysis *Units: 2*
- • BSTA 663 - Clinical Trials in the Pharmaceutical and Biomedical Industries *Units: 2*
- • BSTA 668 - Longitudinal Data Analysis *Units: 2*

Statistics

- • STAT 100 - Elements of Statistics and Probability *Units: 3 ; G.E./G.R. Area: B4*
- • STAT 100A - Statistics Principles *Units: 1*
- • STAT 101 - Statistics in Everyday Life *Units: 3 ; G.E./G.R. Area: B4*
- • STAT 101A - Everyday Statistics Principles *Units: 1*
- • STAT 110 - Elements of Statistics for Business and Economics *Units: 3*
- • STAT 303 - Statistical Methods in Biology *Units: 3*

- • STAT 303A - Biostatistics for Health Science *Units: 3*
- • STAT 305 - Statistics: From Data to Decisions *Units: 3*
- • STAT 310 - Statistical Methods in the Social Sciences *Units: 3*
- • STAT 311 - Data Analysis using Statistical Packages *Units: 3*
- • STAT 315 - Exploring and Analyzing Data *Units: 3*
- • STAT 316 - Statistics and Probability for Science and Engineering *Units: 3*
- • STAT 320 - Introduction to Probability Theory I *Units: 3*
- • STAT 321 - Probability Through Simulation *Units: 3*
- • STAT 330 - Statistical Inference *Units: 3*
- • STAT 331 - Introduction to Analysis of Variance *Units: 3*
- • STAT 351 - Sampling Procedures for Surveys *Units: 3*
- • STAT 401 - Analysis of Variance for Psychology *Units: 3 ; G.E./G.R. Area: D4*
- • STAT 432 - Introduction to Linear Regression and Logistic Regression *Units: 3*
- • STAT 450 - Introduction to R for Data Science *Units: 3*
- • STAT 451 - Introduction to Data Visualization *Units: 3*
- • STAT 452 - Introduction to Statistical Learning *Units: 3*
- • STAT 460 - Advanced Statistical Package Usage *Units: 3*
- • STAT 473 - Introduction to Nonparametric Statistics *Units: 3*
- • STAT 474 - Introduction to Time Series and Forecasting *Units: 3*
- • STAT 475 - Introduction to Stochastic Processes *Units: 3*
- • STAT 481 - Bayesian Statistics *Units: 3*
- • STAT 490 - Independent Study *Units: 1-4*
- • STAT 495 - Data Analysis with SAS *Units: 3*
- • STAT 497 - Issues in Statistics *Units: 3*
- • STAT 498 - Internship *Units: 1-3*

Statistics: Graduate

- • STAT 620 - Probability and Statistical Theory *Units: 4*
- • STAT 630 - Statistical Methods *Units: 4*
- • STAT 631 - Analysis of Variance Models *Units: 4*
- • STAT 632 - Linear and Logistic Regression *Units: 4*
- • STAT 640 - Advanced Statistical Theory *Units: 4*
- • STAT 641 - Bootstrapping Methods *Units: 2*
- • STAT 650 - Advanced R for Data Science *Units: 2*
- • STAT 651 - Data Visualization *Units: 2*
- • STAT 652 - Statistical Learning *Units: 2*
- • STAT 653 - Statistical Natural Language Processing *Units: 2*
- • STAT 654 - Introduction to Applied Deep Learning *Units: 2*
- • STAT 660 - Advanced SAS I *Units: 2*
- • STAT 661 - Categorical Data Analysis *Units: 2*
- • STAT 671 - Advanced JMP *Units: 2*
- • STAT 672 - Advanced Multivariate Statistics *Units: 2*
- • STAT 673 - Nonparametric Statistical Methods *Units: 2*
- • STAT 674 - Time Series *Units: 2*
- • STAT 675 - Advanced Stochastic Processes and Simulation *Units: 2*
- • STAT 676 - Advanced Probability *Units: 4*
- • STAT 681 - Bayesian Statistics *Units: 2*
- • STAT 690 - Independent Study *Units: 1-4*

- • STAT 692 - Comprehensive Exam Review *Units: 2*
- • STAT 694 - Applied Research in Statistics and Biostatistics *Units: 1-4*
- • STAT 697 - Issues in Statistics *Units: 3*
- • STAT 698 - Internship *Units: 1-3*

Master

Biostatistics, M.S.

Biostatistics, M.S. Program

Program Description

The Department of Statistics and Biostatistics offers graduate study leading to the degree Master of Science in Biostatistics. The program is designed to serve the needs of students with varying backgrounds in Statistics, Biological Sciences, Public Health, Computer Science, Mathematics and other sciences. The program includes curriculum designed to prepare students to work in the pharmaceutical and biotech industries. All students are expected to master a wide variety of applied statistical and probabilistic techniques and the theoretical foundations on which these techniques rest. They are expected to be familiar with recent developments and to be able to use the statistical literature to learn new techniques and theories throughout their professional careers. In addition to the general requirements stated elsewhere in this catalog, a student must satisfy the departmental requirements stated in the following paragraphs.

Career Opportunities

Statistician • Biostatistician • Data Analyst • Data Scientist • Teacher.

Admission Requirements

- A baccalaureate degree or equivalent.
- Differential and Integral Calculus (MATH 130, 131).
- Departmental approval.

In addition to the above minimum requirements for admission, if students have some of the following background they will be at an advantage both as to selection for admission to the program and optimal progress toward the degree if admitted:

- interest or experience in a setting where studies or experiments are conducted for the collection of data.
- multiple integration and infinite series
- matrix algebra
- basic statistics and probability
- knowledge of a computer programming language

Student Standing and Progress Toward the Degree

Advancement to Candidacy Requirements

- Completion of at least 16 semester units of approved coursework beyond the baccalaureate, with an average of "B" (3.0) or higher.
- Fulfillment of the University Writing Skills Requirement. For information on meeting the University Writing Skills Requirement, see the Testing Office website at www.csueastbay.edu/testing or call 510.885.3661.
- Departmental approval.

Cause for Dismissal from Program

Students may be dismissed from the program at any time "for cause." "For cause" includes, but is not limited to, poor academic performance, violation of the student code of conduct, academic dishonesty, and/or interference with the educational environment.

Program Learning Outcomes

Students graduating with an M.S. in Biostatistics from Cal State East Bay will be able to:

- Apply biostatistical methodology to data to (a) produce descriptive statistics, probability models, and visual displays (b) select probability distributions to implement statistical inference (estimation and hypothesis testing), and (c) critique biostatistical models for uncertainty, likelihood, modeling and error analysis at the Master's level.
- Evaluate practical problems arising in biostatistics to select and formulate models for solutions using these methodologies.
- Select and generate biostatistical software output and evaluate the results appropriately.
- Derive basic theory, explain biostatistical concepts, and clearly communicate analytical results to others.

Biostatistics Degree Requirements (32 units)

Foundation Requirements

The M.S. in Biostatistics program consists of at least 32 semester units of approved upper division and graduate work. The university requirement for the minimum number of 600-level units applies. All work applied toward the 32 units must be at an average grade of "B" (3.0) or higher. No graduate-level required course may be at a grade below "B-."

Core Courses

The following 26 units are required:

- BSTA 661 - Categorical Data Analysis *Units: 2*
- BSTA 662 - Survival Analysis *Units: 2*
- BSTA 663 - Clinical Trials in the Pharmaceutical and Biomedical Industries *Units: 2*
- STAT 620 - Probability and Statistical Theory *Units: 4*
- STAT 630 - Statistical Methods *Units: 4*
- STAT 631 - Analysis of Variance Models *Units: 4*

- STAT 632 - Linear and Logistic Regression *Units: 4*
- STAT 640 - Advanced Statistical Theory *Units: 4*

Elective Courses

Select two (2) courses for 4 units from the following:

- BSTA 668 - Longitudinal Data Analysis *Units: 2*
- STAT 650 - Advanced R for Data Science *Units: 2*
- STAT 660 - Advanced SAS I *Units: 2*
- STAT 675 - Advanced Stochastic Processes and Simulation *Units: 2*

Capstone Requirement

The following capstone for 2 units is required to complete the program:

- STAT 692 - Comprehensive Exam Review *Units: 2*

Other Graduate & Post-Baccalaureate Degree Requirements

In addition to departmental requirements, every student must also satisfy the University requirements for graduation as described throughout this catalog. These include the 70% unit residence requirement; the five-year rule on currency of subject matter; the minimum number of units in 600-level courses; the "C" minimum grade for each graduate course; the 3.00 cumulative grade point average; and the University Writing Skills Requirement.

Note: For information on meeting the University Writing Skills Requirement, see the Testing Office website at www.csueastbay.edu/testing or call (510) 885-3661.

Department Courses Listed by Course Type

Statistics and Biostatistics Courses

Department of Statistics and Biostatistics

Go to information for this department.

Courses

Biostatistics: Graduate

- • BSTA 661 - Categorical Data Analysis *Units: 2*
- • BSTA 662 - Survival Analysis *Units: 2*
- • BSTA 663 - Clinical Trials in the Pharmaceutical and Biomedical Industries *Units: 2*
- • BSTA 668 - Longitudinal Data Analysis *Units: 2*

Statistics

- • STAT 100 - Elements of Statistics and Probability *Units: 3 ; G.E./G.R. Area: B4*

- • STAT 100A - Statistics Principles *Units: 1*
- • STAT 101 - Statistics in Everyday Life *Units: 3 ; G.E./G.R. Area: B4*
- • STAT 101A - Everyday Statistics Principles *Units: 1*
- • STAT 110 - Elements of Statistics for Business and Economics *Units: 3*
- • STAT 303 - Statistical Methods in Biology *Units: 3*
- • STAT 303A - Biostatistics for Health Science *Units: 3*
- • STAT 305 - Statistics: From Data to Decisions *Units: 3*
- • STAT 310 - Statistical Methods in the Social Sciences *Units: 3*
- • STAT 311 - Data Analysis using Statistical Packages *Units: 3*
- • STAT 315 - Exploring and Analyzing Data *Units: 3*
- • STAT 316 - Statistics and Probability for Science and Engineering *Units: 3*
- • STAT 320 - Introduction to Probability Theory I *Units: 3*
- • STAT 321 - Probability Through Simulation *Units: 3*
- • STAT 330 - Statistical Inference *Units: 3*
- • STAT 331 - Introduction to Analysis of Variance *Units: 3*
- • STAT 351 - Sampling Procedures for Surveys *Units: 3*
- • STAT 401 - Analysis of Variance for Psychology *Units: 3 ; G.E./G.R. Area: D4*
- • STAT 432 - Introduction to Linear Regression and Logistic Regression *Units: 3*
- • STAT 450 - Introduction to R for Data Science *Units: 3*
- • STAT 451 - Introduction to Data Visualization *Units: 3*
- • STAT 452 - Introduction to Statistical Learning *Units: 3*
- • STAT 460 - Advanced Statistical Package Usage *Units: 3*
- • STAT 473 - Introduction to Nonparametric Statistics *Units: 3*
- • STAT 474 - Introduction to Time Series and Forecasting *Units: 3*
- • STAT 475 - Introduction to Stochastic Processes *Units: 3*
- • STAT 481 - Bayesian Statistics *Units: 3*
- • STAT 490 - Independent Study *Units: 1-4*
- • STAT 495 - Data Analysis with SAS *Units: 3*
- • STAT 497 - Issues in Statistics *Units: 3*
- • STAT 498 - Internship *Units: 1-3*

Statistics: Graduate

- • STAT 620 - Probability and Statistical Theory *Units: 4*
- • STAT 630 - Statistical Methods *Units: 4*
- • STAT 631 - Analysis of Variance Models *Units: 4*
- • STAT 632 - Linear and Logistic Regression *Units: 4*
- • STAT 640 - Advanced Statistical Theory *Units: 4*
- • STAT 641 - Bootstrapping Methods *Units: 2*
- • STAT 650 - Advanced R for Data Science *Units: 2*
- • STAT 651 - Data Visualization *Units: 2*
- • STAT 652 - Statistical Learning *Units: 2*
- • STAT 653 - Statistical Natural Language Processing *Units: 2*
- • STAT 654 - Introduction to Applied Deep Learning *Units: 2*
- • STAT 660 - Advanced SAS I *Units: 2*
- • STAT 661 - Categorical Data Analysis *Units: 2*
- • STAT 671 - Advanced JMP *Units: 2*
- • STAT 672 - Advanced Multivariate Statistics *Units: 2*
- • STAT 673 - Nonparametric Statistical Methods *Units: 2*

- • STAT 674 - Time Series *Units: 2*
- • STAT 675 - Advanced Stochastic Processes and Simulation *Units: 2*
- • STAT 676 - Advanced Probability *Units: 4*
- • STAT 681 - Bayesian Statistics *Units: 2*
- • STAT 690 - Independent Study *Units: 1-4*
- • STAT 692 - Comprehensive Exam Review *Units: 2*
- • STAT 694 - Applied Research in Statistics and Biostatistics *Units: 1-4*
- • STAT 697 - Issues in Statistics *Units: 3*
- • STAT 698 - Internship *Units: 1-3*

Statistics, M.S.

Statistics, M.S. Program

Program Description

The Department of Statistics and Biostatistics offers graduate study leading to the degree Master of Science in Statistics. The program is flexible in order to serve the needs of students with varying backgrounds (including statistics, mathematics, computer science, engineering, business, economics and other quantitative fields) and with different career objectives. The program includes concentrations in Actuarial Science, Applied Statistics, Data Science, and Mathematical Statistics. All students are expected to master a wide variety of applied statistical, computational, and probabilistic techniques and the theoretical foundations upon which these techniques are based. Students are expected to be familiar with recent developments in the field and to be able to use the statistical literature to learn new techniques and theories throughout their professional careers. In addition to the general requirements stated elsewhere in this catalog, students must satisfy the departmental requirements stated in the following paragraphs.

Students interested in pursuing an M.S. degree in Biostatistics should see the Biostatistics chapter in the university catalog.

Career Opportunities

Actuary • Biostatistician • Business Analyst • Census Analyst • Credit Analyst • Customer Analytics Specialist • Data Analyst • Data Manager • Data Scientist • Data Visualization Designer • Educational Researcher • Financial Modeler • Information Systems Analyst • Marketing Analytics Specialist • Quality Control Specialist • R programmer • Research Statistician • Sales Analyst • SAS Programmer • Statistical Programmer • Sports Analyst • Statistician • Survey Designer • Systems Analyst • Teacher

Admission Requirements

- A baccalaureate degree or equivalent.
- Differential and Integral Calculus (MATH 130, 131).
- Departmental approval.

In addition to the above minimum requirements for admission, if students have some of the following background they will be at an advantage both as to selection for admission to the program and optimal progress toward the degree if admitted:

- interest or experience in a setting where studies or experiments are conducted for the collection of data.

- multiple integration and infinite series
- matrix algebra
- basic statistics and probability
- knowledge of a computer programming language

Student Standing and Progress Toward the Degree

Advancement to Candidacy Requirements

- Completion of at least 16 semester units of approved coursework beyond the baccalaureate, with an average of "B" (3.0) or higher.
- Fulfillment of the University Writing Skills Requirement. For information on meeting the University Writing Skills Requirement, see the Testing Office website at www.csueastbay.edu/testing or call 510.885.3661.
- Departmental approval.

Cause for Dismissal from Program

Students may be dismissed from the program at any time "for cause." "For cause" includes, but is not limited to, poor academic performance, violation of the student code of conduct, academic dishonesty, and/or interference with the educational environment.

Program Learning Outcomes

Students graduating with an M.S. in Statistics from Cal State East Bay will be able to:

- Apply statistical methodologies, including a) descriptive statistics and graphical displays, b) probability models for uncertainty, stochastic processes, and distribution theory, c) hypothesis testing and confidence intervals, d) ANOVA and regression models (including linear, and multiple linear) and analysis of residuals from models and trends at the Master's level.
- Derive basic theory underlying these methodologies.
- Model practical problems for solutions using these methodologies.
- Produce relevant computer output using standard statistical software and interpret the results appropriately.
- Communicate statistical concepts and analytical results clearly and appropriately to others; and,
- Employ theory, concepts, and terminology at a level that supports lifelong learning of related methodologies.

Statistics Degree Requirements (32 units)

Foundation Requirements

The M.S. in Statistics program consists of at least 32 semester units of approved upper division and graduate work. The university requirement for the minimum number of 600-level units applies. All work applied toward the 32 units must be at an average grade of "B" (3.0) or higher. No graduate-level required course may be at a grade below "B-."

Core Courses

The following 22 units are required:

- STAT 620 - Probability and Statistical Theory *Units: 4*
- STAT 630 - Statistical Methods *Units: 4*
- STAT 631 - Analysis of Variance Models *Units: 4*
- STAT 632 - Linear and Logistic Regression *Units: 4*
- STAT 640 - Advanced Statistical Theory *Units: 4*

And, one of:

- STAT 641 - Bootstrapping Methods *Units: 2*
- STAT 675 - Advanced Stochastic Processes and Simulation *Units: 2*

Concentrations

Students may select one (1) concentration listed below for 8 units, or students may choose no concentration that requires 8 units of approved electives to complete the degree:

- Statistics, M.S. (*See "Additional Electives"*)
- Statistics, M.S.: Actuarial Science Concentration
- Statistics, M.S.: Applied Statistics Concentration
- Statistics, M.S.: Data Science Concentration
- Statistics, M.S.: Mathematical Statistics Concentration

Capstone Requirements

The following capstone for 2 units is required:

- STAT 692 - Comprehensive Exam Review *Units: 2*

Additional Electives

Students who do not select a concentration must take 8 units of electives approved by a department advisor to complete the degree.

Other Graduate & Post-Baccalaureate Degree Requirements

In addition to departmental requirements, every student must also satisfy the University requirements for graduation as described throughout this catalog. These include the 70% unit residence requirement; the five-year rule on currency of subject matter; the minimum number of units in 600-level courses; the "C" minimum grade for each graduate course; the 3.00 cumulative grade point average; and the University Writing Skills Requirement.

Note: For information on meeting the University Writing Skills Requirement, see the Testing Office website at www.csueastbay.edu/testing or call (510) 885-3661.

Department Courses Listed by Course Type

Statistics and Biostatistics Courses

Department of Statistics and Biostatistics

Go to information for this department.

Courses

Biostatistics: Graduate

- • BSTA 661 - Categorical Data Analysis *Units: 2*
- • BSTA 662 - Survival Analysis *Units: 2*
- • BSTA 663 - Clinical Trials in the Pharmaceutical and Biomedical Industries *Units: 2*
- • BSTA 668 - Longitudinal Data Analysis *Units: 2*

Statistics

- • STAT 100 - Elements of Statistics and Probability *Units: 3 ; G.E./G.R. Area: B4*
- • STAT 100A - Statistics Principles *Units: 1*
- • STAT 101 - Statistics in Everyday Life *Units: 3 ; G.E./G.R. Area: B4*
- • STAT 101A - Everyday Statistics Principles *Units: 1*
- • STAT 110 - Elements of Statistics for Business and Economics *Units: 3*
- • STAT 303 - Statistical Methods in Biology *Units: 3*
- • STAT 303A - Biostatistics for Health Science *Units: 3*
- • STAT 305 - Statistics: From Data to Decisions *Units: 3*
- • STAT 310 - Statistical Methods in the Social Sciences *Units: 3*
- • STAT 311 - Data Analysis using Statistical Packages *Units: 3*
- • STAT 315 - Exploring and Analyzing Data *Units: 3*
- • STAT 316 - Statistics and Probability for Science and Engineering *Units: 3*
- • STAT 320 - Introduction to Probability Theory I *Units: 3*
- • STAT 321 - Probability Through Simulation *Units: 3*
- • STAT 330 - Statistical Inference *Units: 3*
- • STAT 331 - Introduction to Analysis of Variance *Units: 3*
- • STAT 351 - Sampling Procedures for Surveys *Units: 3*
- • STAT 401 - Analysis of Variance for Psychology *Units: 3 ; G.E./G.R. Area: D4*
- • STAT 432 - Introduction to Linear Regression and Logistic Regression *Units: 3*
- • STAT 450 - Introduction to R for Data Science *Units: 3*
- • STAT 451 - Introduction to Data Visualization *Units: 3*
- • STAT 452 - Introduction to Statistical Learning *Units: 3*
- • STAT 460 - Advanced Statistical Package Usage *Units: 3*
- • STAT 473 - Introduction to Nonparametric Statistics *Units: 3*
- • STAT 474 - Introduction to Time Series and Forecasting *Units: 3*
- • STAT 475 - Introduction to Stochastic Processes *Units: 3*
- • STAT 481 - Bayesian Statistics *Units: 3*
- • STAT 490 - Independent Study *Units: 1-4*
- • STAT 495 - Data Analysis with SAS *Units: 3*
- • STAT 497 - Issues in Statistics *Units: 3*
- • STAT 498 - Internship *Units: 1-3*

Statistics: Graduate

- • STAT 620 - Probability and Statistical Theory *Units: 4*
- • STAT 630 - Statistical Methods *Units: 4*

- • STAT 631 - Analysis of Variance Models *Units: 4*
- • STAT 632 - Linear and Logistic Regression *Units: 4*
- • STAT 640 - Advanced Statistical Theory *Units: 4*
- • STAT 641 - Bootstrapping Methods *Units: 2*
- • STAT 650 - Advanced R for Data Science *Units: 2*
- • STAT 651 - Data Visualization *Units: 2*
- • STAT 652 - Statistical Learning *Units: 2*
- • STAT 653 - Statistical Natural Language Processing *Units: 2*
- • STAT 654 - Introduction to Applied Deep Learning *Units: 2*
- • STAT 660 - Advanced SAS I *Units: 2*
- • STAT 661 - Categorical Data Analysis *Units: 2*
- • STAT 671 - Advanced JMP *Units: 2*
- • STAT 672 - Advanced Multivariate Statistics *Units: 2*
- • STAT 673 - Nonparametric Statistical Methods *Units: 2*
- • STAT 674 - Time Series *Units: 2*
- • STAT 675 - Advanced Stochastic Processes and Simulation *Units: 2*
- • STAT 676 - Advanced Probability *Units: 4*
- • STAT 681 - Bayesian Statistics *Units: 2*
- • STAT 690 - Independent Study *Units: 1-4*
- • STAT 692 - Comprehensive Exam Review *Units: 2*
- • STAT 694 - Applied Research in Statistics and Biostatistics *Units: 1-4*
- • STAT 697 - Issues in Statistics *Units: 3*
- • STAT 698 - Internship *Units: 1-3*

Statistics, M.S.: Actuarial Science Concentration

Statistics, M.S. Program

Program Description

The Department of Statistics and Biostatistics offers graduate study leading to the degree Master of Science in Statistics. The program is flexible in order to serve the needs of students with varying backgrounds (including statistics, mathematics, computer science, engineering, business, economics and other quantitative fields) and with different career objectives. The program includes concentrations in in Actuarial Science, Applied Statistics, Data Science, and Mathematical Statistics. All students are expected to master a wide variety of applied statistical, computational, and probabilistic techniques and the theoretical foundations upon which these techniques are based. Students are expected to be familiar with recent developments in the field and to be able to use the statistical literature to learn new techniques and theories throughout their professional careers. In addition to the general requirements stated elsewhere in this catalog, students must satisfy the departmental requirements stated in the following paragraphs.

Students interested in pursuing an M.S. degree in Biostatistics should see the Biostatistics chapter in the university catalog.

Career Opportunities

Actuary • Biostatistician • Business Analyst • Census Analyst • Credit Analyst • Customer Analytics Specialist • Data Analyst • Data Manager • Data Scientist • Data Visualization Designer • Educational

Researcher • Financial Modeler • Information Systems Analyst • Marketing Analytics Specialist • Quality Control Specialist • R programmer • Research Statistician • Sales Analyst • SAS Programmer • Statistical Programmer • Sports Analyst • Statistician • Survey Designer • Systems Analyst • Teacher

Admission Requirements

- A baccalaureate degree or equivalent.
- Differential and Integral Calculus (MATH 130, 131).
- Departmental approval.

In addition to the above minimum requirements for admission, if students have some of the following background they will be at an advantage both as to selection for admission to the program and optimal progress toward the degree if admitted:

- interest or experience in a setting where studies or experiments are conducted for the collection of data.
- multiple integration and infinite series
- matrix algebra
- basic statistics and probability
- knowledge of a computer programming language

Student Standing and Progress Toward the Degree

Advancement to Candidacy Requirements

- Completion of at least 16 semester units of approved coursework beyond the baccalaureate, with an average of "B" (3.0) or higher.
- Fulfillment of the University Writing Skills Requirement. For information on meeting the University Writing Skills Requirement, see the Testing Office website at www.csueastbay.edu/testing or call 510.885.3661.
- Departmental approval.

Cause for Dismissal from Program

Students may be dismissed from the program at any time "for cause." "For cause" includes, but is not limited to, poor academic performance, violation of the student code of conduct, academic dishonesty, and/or interference with the educational environment.

Program Learning Outcomes

Students graduating with an M.S. in Statistics from Cal State East Bay will be able to:

- Apply statistical methodologies, including a) descriptive statistics and graphical displays, b) probability models for uncertainty, stochastic processes, and distribution theory, c) hypothesis testing and confidence intervals, d) ANOVA and regression models (including linear, and multiple linear) and analysis of residuals from models and trends at the Master's level.
- Derive basic theory underlying these methodologies.
- Model practical problems for solutions using these methodologies.
- Produce relevant computer output using standard statistical software and interpret the results appropriately.

- Communicate statistical concepts and analytical results clearly and appropriately to others; and,
- Employ theory, concepts, and terminology at a level that supports lifelong learning of related methodologies.

Statistics Degree Requirements (32 units)

Foundation Requirements

The M.S. in Statistics program consists of at least 32 semester units of approved upper division and graduate work. The university requirement for the minimum number of 600-level units applies. All work applied toward the 32 units must be at an average grade of "B" (3.0) or higher. No graduate-level required course may be at a grade below "B-."

Core Courses

The following 22 units are required:

- STAT 620 - Probability and Statistical Theory *Units: 4*
- STAT 630 - Statistical Methods *Units: 4*
- STAT 631 - Analysis of Variance Models *Units: 4*
- STAT 632 - Linear and Logistic Regression *Units: 4*
- STAT 640 - Advanced Statistical Theory *Units: 4*

And, one of:

- STAT 641 - Bootstrapping Methods *Units: 2*
- STAT 675 - Advanced Stochastic Processes and Simulation *Units: 2*

Concentrations

Students may select one (1) concentration listed below for 8 units, or students may choose no concentration that requires 8 units of approved electives to complete the degree:

- Statistics, M.S. (*See "Additional Electives"*)
- Statistics, M.S.: Actuarial Science Concentration
- Statistics, M.S.: Applied Statistics Concentration
- Statistics, M.S.: Data Science Concentration
- Statistics, M.S.: Mathematical Statistics Concentration

Capstone Requirements

The following capstone for 2 units is required:

- STAT 692 - Comprehensive Exam Review *Units: 2*

Actuarial Science Concentration

8 units to be completed from the following:

Choose three (3) courses for 6 units from the following:

- BSTA 661 - Categorical Data Analysis *Units: 2*
- BSTA 662 - Survival Analysis *Units: 2*
- BSTA 668 - Longitudinal Data Analysis *Units: 2*
- STAT 673 - Nonparametric Statistical Methods *Units: 2*
- STAT 674 - Time Series *Units: 2*
- STAT 676 - Advanced Probability *Units: 4*

Choose a minimum of 2 units from:

- An additional course listed above
- An approved course from the College of Business and Economics
- STAT 672 - Advanced Multivariate Statistics *Units: 2*

Note: Courses not listed above require advance approval from the graduate advisor.

Other Graduate & Post-Baccalaureate Degree Requirements

In addition to departmental requirements, every student must also satisfy the University requirements for graduation as described throughout this catalog. These include the 70% unit residence requirement; the five-year rule on currency of subject matter; the minimum number of units in 600-level courses; the "C" minimum grade for each graduate course; the 3.00 cumulative grade point average; and the University Writing Skills Requirement.

Note: For information on meeting the University Writing Skills Requirement, see the Testing Office website at www.csueastbay.edu/testing or call (510) 885-3661.

Department Courses Listed by Course Type

Statistics and Biostatistics Courses

Department of Statistics and Biostatistics

Go to information for this department.

Courses

Biostatistics: Graduate

- • BSTA 661 - Categorical Data Analysis *Units: 2*
- • BSTA 662 - Survival Analysis *Units: 2*
- • BSTA 663 - Clinical Trials in the Pharmaceutical and Biomedical Industries *Units: 2*
- • BSTA 668 - Longitudinal Data Analysis *Units: 2*

Statistics

- • STAT 100 - Elements of Statistics and Probability *Units: 3 ; G.E./G.R. Area: B4*
- • STAT 100A - Statistics Principles *Units: 1*
- • STAT 101 - Statistics in Everyday Life *Units: 3 ; G.E./G.R. Area: B4*
- • STAT 101A - Everyday Statistics Principles *Units: 1*
- • STAT 110 - Elements of Statistics for Business and Economics *Units: 3*

- • STAT 303 - Statistical Methods in Biology *Units: 3*
- • STAT 303A - Biostatistics for Health Science *Units: 3*
- • STAT 305 - Statistics: From Data to Decisions *Units: 3*
- • STAT 310 - Statistical Methods in the Social Sciences *Units: 3*
- • STAT 311 - Data Analysis using Statistical Packages *Units: 3*
- • STAT 315 - Exploring and Analyzing Data *Units: 3*
- • STAT 316 - Statistics and Probability for Science and Engineering *Units: 3*
- • STAT 320 - Introduction to Probability Theory I *Units: 3*
- • STAT 321 - Probability Through Simulation *Units: 3*
- • STAT 330 - Statistical Inference *Units: 3*
- • STAT 331 - Introduction to Analysis of Variance *Units: 3*
- • STAT 351 - Sampling Procedures for Surveys *Units: 3*
- • STAT 401 - Analysis of Variance for Psychology *Units: 3 ; G.E./G.R. Area: D4*
- • STAT 432 - Introduction to Linear Regression and Logistic Regression *Units: 3*
- • STAT 450 - Introduction to R for Data Science *Units: 3*
- • STAT 451 - Introduction to Data Visualization *Units: 3*
- • STAT 452 - Introduction to Statistical Learning *Units: 3*
- • STAT 460 - Advanced Statistical Package Usage *Units: 3*
- • STAT 473 - Introduction to Nonparametric Statistics *Units: 3*
- • STAT 474 - Introduction to Time Series and Forecasting *Units: 3*
- • STAT 475 - Introduction to Stochastic Processes *Units: 3*
- • STAT 481 - Bayesian Statistics *Units: 3*
- • STAT 490 - Independent Study *Units: 1-4*
- • STAT 495 - Data Analysis with SAS *Units: 3*
- • STAT 497 - Issues in Statistics *Units: 3*
- • STAT 498 - Internship *Units: 1-3*

Statistics: Graduate

- • STAT 620 - Probability and Statistical Theory *Units: 4*
- • STAT 630 - Statistical Methods *Units: 4*
- • STAT 631 - Analysis of Variance Models *Units: 4*
- • STAT 632 - Linear and Logistic Regression *Units: 4*
- • STAT 640 - Advanced Statistical Theory *Units: 4*
- • STAT 641 - Bootstrapping Methods *Units: 2*
- • STAT 650 - Advanced R for Data Science *Units: 2*
- • STAT 651 - Data Visualization *Units: 2*
- • STAT 652 - Statistical Learning *Units: 2*
- • STAT 653 - Statistical Natural Language Processing *Units: 2*
- • STAT 654 - Introduction to Applied Deep Learning *Units: 2*
- • STAT 660 - Advanced SAS I *Units: 2*
- • STAT 661 - Categorical Data Analysis *Units: 2*
- • STAT 671 - Advanced JMP *Units: 2*
- • STAT 672 - Advanced Multivariate Statistics *Units: 2*
- • STAT 673 - Nonparametric Statistical Methods *Units: 2*
- • STAT 674 - Time Series *Units: 2*
- • STAT 675 - Advanced Stochastic Processes and Simulation *Units: 2*
- • STAT 676 - Advanced Probability *Units: 4*
- • STAT 681 - Bayesian Statistics *Units: 2*

- • STAT 690 - Independent Study *Units: 1-4*
- • STAT 692 - Comprehensive Exam Review *Units: 2*
- • STAT 694 - Applied Research in Statistics and Biostatistics *Units: 1-4*
- • STAT 697 - Issues in Statistics *Units: 3*
- • STAT 698 - Internship *Units: 1-3*

Statistics, M.S.: Applied Statistics Concentration

Statistics, M.S. Program

Program Description

The Department of Statistics and Biostatistics offers graduate study leading to the degree Master of Science in Statistics. The program is flexible in order to serve the needs of students with varying backgrounds (including statistics, mathematics, computer science, engineering, business, economics and other quantitative fields) and with different career objectives. The program includes concentrations in Actuarial Science, Applied Statistics, Data Science, and Mathematical Statistics. All students are expected to master a wide variety of applied statistical, computational, and probabilistic techniques and the theoretical foundations upon which these techniques are based. Students are expected to be familiar with recent developments in the field and to be able to use the statistical literature to learn new techniques and theories throughout their professional careers. In addition to the general requirements stated elsewhere in this catalog, students must satisfy the departmental requirements stated in the following paragraphs.

Students interested in pursuing an M.S. degree in Biostatistics should see the Biostatistics chapter in the university catalog.

Career Opportunities

Actuary • Biostatistician • Business Analyst • Census Analyst • Credit Analyst • Customer Analytics Specialist • Data Analyst • Data Manager • Data Scientist • Data Visualization Designer • Educational Researcher • Financial Modeler • Information Systems Analyst • Marketing Analytics Specialist • Quality Control Specialist • R programmer • Research Statistician • Sales Analyst • SAS Programmer • Statistical Programmer • Sports Analyst • Statistician • Survey Designer • Systems Analyst • Teacher

Admission Requirements

- A baccalaureate degree or equivalent.
- Differential and Integral Calculus (MATH 130, 131).
- Departmental approval.

In addition to the above minimum requirements for admission, if students have some of the following background they will be at an advantage both as to selection for admission to the program and optimal progress toward the degree if admitted:

- interest or experience in a setting where studies or experiments are conducted for the collection of data.
- multiple integration and infinite series
- matrix algebra
- basic statistics and probability
- knowledge of a computer programming language

Student Standing and Progress Toward the Degree

Advancement to Candidacy Requirements

- Completion of at least 16 semester units of approved coursework beyond the baccalaureate, with an average of "B" (3.0) or higher.
- Fulfillment of the University Writing Skills Requirement. For information on meeting the University Writing Skills Requirement, see the Testing Office website at www.csueastbay.edu/testing or call 510.885.3661.
- Departmental approval.

Cause for Dismissal from Program

Students may be dismissed from the program at any time "for cause." "For cause" includes, but is not limited to, poor academic performance, violation of the student code of conduct, academic dishonesty, and/or interference with the educational environment.

Program Learning Outcomes

Students graduating with an M.S. in Statistics from Cal State East Bay will be able to:

- Apply statistical methodologies, including a) descriptive statistics and graphical displays, b) probability models for uncertainty, stochastic processes, and distribution theory, c) hypothesis testing and confidence intervals, d) ANOVA and regression models (including linear, and multiple linear) and analysis of residuals from models and trends at the Master's level.
- Derive basic theory underlying these methodologies.
- Model practical problems for solutions using these methodologies.
- Produce relevant computer output using standard statistical software and interpret the results appropriately.
- Communicate statistical concepts and analytical results clearly and appropriately to others; and,
- Employ theory, concepts, and terminology at a level that supports lifelong learning of related methodologies.

Statistics Degree Requirements (32 units)

Foundation Requirements

The M.S. in Statistics program consists of at least 32 semester units of approved upper division and graduate work. The university requirement for the minimum number of 600-level units applies. All work applied toward the 32 units must be at an average grade of "B" (3.0) or higher. No graduate-level required course may be at a grade below "B-."

Core Courses

The following 22 units are required:

- STAT 620 - Probability and Statistical Theory *Units: 4*
- STAT 630 - Statistical Methods *Units: 4*

- STAT 631 - Analysis of Variance Models *Units: 4*
- STAT 632 - Linear and Logistic Regression *Units: 4*
- STAT 640 - Advanced Statistical Theory *Units: 4*

And, one of:

- STAT 641 - Bootstrapping Methods *Units: 2*
- STAT 675 - Advanced Stochastic Processes and Simulation *Units: 2*

Concentrations

Students may select one (1) concentration listed below for 8 units, or students may choose no concentration that requires 8 units of approved electives to complete the degree:

- Statistics, M.S. (*See "Additional Electives"*)
- Statistics, M.S.: Actuarial Science Concentration
- Statistics, M.S.: Applied Statistics Concentration
- Statistics, M.S.: Data Science Concentration
- Statistics, M.S.: Mathematical Statistics Concentration

Capstone Requirements

The following capstone for 2 units is required:

- STAT 692 - Comprehensive Exam Review *Units: 2*

Applied Statistics Concentration

Choose four (4) courses for 8 units from the following:

- BSTA 661 - Categorical Data Analysis *Units: 2*
- BSTA 662 - Survival Analysis *Units: 2*
- BSTA 668 - Longitudinal Data Analysis *Units: 2*
- STAT 650 - Advanced R for Data Science *Units: 2*
- STAT 651 - Data Visualization *Units: 2*
- STAT 652 - Statistical Learning *Units: 2*
- STAT 653 - Statistical Natural Language Processing *Units: 2*
- STAT 660 - Advanced SAS I *Units: 2*
- STAT 672 - Advanced Multivariate Statistics *Units: 2*
- STAT 673 - Nonparametric Statistical Methods *Units: 2*
- STAT 674 - Time Series *Units: 2*

Other Graduate & Post-Baccalaureate Degree Requirements

In addition to departmental requirements, every student must also satisfy the University requirements for graduation as described throughout this catalog. These include the 70% unit residence requirement; the five-year rule on currency of subject matter; the minimum number of units in 600-level courses; the "C"

minimum grade for each graduate course; the 3.00 cumulative grade point average; and the University Writing Skills Requirement.

Note: For information on meeting the University Writing Skills Requirement, see the Testing Office website at www.csueastbay.edu/testing or call (510) 885-3661.

Department Courses Listed by Course Type

Statistics and Biostatistics Courses

Department of Statistics and Biostatistics

Go to information for this department.

Courses

Biostatistics: Graduate

- • BSTA 661 - Categorical Data Analysis *Units: 2*
- • BSTA 662 - Survival Analysis *Units: 2*
- • BSTA 663 - Clinical Trials in the Pharmaceutical and Biomedical Industries *Units: 2*
- • BSTA 668 - Longitudinal Data Analysis *Units: 2*

Statistics

- • STAT 100 - Elements of Statistics and Probability *Units: 3 ; G.E./G.R. Area: B4*
- • STAT 100A - Statistics Principles *Units: 1*
- • STAT 101 - Statistics in Everyday Life *Units: 3 ; G.E./G.R. Area: B4*
- • STAT 101A - Everyday Statistics Principles *Units: 1*
- • STAT 110 - Elements of Statistics for Business and Economics *Units: 3*
- • STAT 303 - Statistical Methods in Biology *Units: 3*
- • STAT 303A - Biostatistics for Health Science *Units: 3*
- • STAT 305 - Statistics: From Data to Decisions *Units: 3*
- • STAT 310 - Statistical Methods in the Social Sciences *Units: 3*
- • STAT 311 - Data Analysis using Statistical Packages *Units: 3*
- • STAT 315 - Exploring and Analyzing Data *Units: 3*
- • STAT 316 - Statistics and Probability for Science and Engineering *Units: 3*
- • STAT 320 - Introduction to Probability Theory I *Units: 3*
- • STAT 321 - Probability Through Simulation *Units: 3*
- • STAT 330 - Statistical Inference *Units: 3*
- • STAT 331 - Introduction to Analysis of Variance *Units: 3*
- • STAT 351 - Sampling Procedures for Surveys *Units: 3*
- • STAT 401 - Analysis of Variance for Psychology *Units: 3 ; G.E./G.R. Area: D4*
- • STAT 432 - Introduction to Linear Regression and Logistic Regression *Units: 3*
- • STAT 450 - Introduction to R for Data Science *Units: 3*
- • STAT 451 - Introduction to Data Visualization *Units: 3*
- • STAT 452 - Introduction to Statistical Learning *Units: 3*
- • STAT 460 - Advanced Statistical Package Usage *Units: 3*
- • STAT 473 - Introduction to Nonparametric Statistics *Units: 3*

- • STAT 474 - Introduction to Time Series and Forecasting *Units: 3*
- • STAT 475 - Introduction to Stochastic Processes *Units: 3*
- • STAT 481 - Bayesian Statistics *Units: 3*
- • STAT 490 - Independent Study *Units: 1-4*
- • STAT 495 - Data Analysis with SAS *Units: 3*
- • STAT 497 - Issues in Statistics *Units: 3*
- • STAT 498 - Internship *Units: 1-3*

Statistics: Graduate

- • STAT 620 - Probability and Statistical Theory *Units: 4*
- • STAT 630 - Statistical Methods *Units: 4*
- • STAT 631 - Analysis of Variance Models *Units: 4*
- • STAT 632 - Linear and Logistic Regression *Units: 4*
- • STAT 640 - Advanced Statistical Theory *Units: 4*
- • STAT 641 - Bootstrapping Methods *Units: 2*
- • STAT 650 - Advanced R for Data Science *Units: 2*
- • STAT 651 - Data Visualization *Units: 2*
- • STAT 652 - Statistical Learning *Units: 2*
- • STAT 653 - Statistical Natural Language Processing *Units: 2*
- • STAT 654 - Introduction to Applied Deep Learning *Units: 2*
- • STAT 660 - Advanced SAS I *Units: 2*
- • STAT 661 - Categorical Data Analysis *Units: 2*
- • STAT 671 - Advanced JMP *Units: 2*
- • STAT 672 - Advanced Multivariate Statistics *Units: 2*
- • STAT 673 - Nonparametric Statistical Methods *Units: 2*
- • STAT 674 - Time Series *Units: 2*
- • STAT 675 - Advanced Stochastic Processes and Simulation *Units: 2*
- • STAT 676 - Advanced Probability *Units: 4*
- • STAT 681 - Bayesian Statistics *Units: 2*
- • STAT 690 - Independent Study *Units: 1-4*
- • STAT 692 - Comprehensive Exam Review *Units: 2*
- • STAT 694 - Applied Research in Statistics and Biostatistics *Units: 1-4*
- • STAT 697 - Issues in Statistics *Units: 3*
- • STAT 698 - Internship *Units: 1-3*

Statistics, M.S.: Data Science Concentration

Statistics, M.S. Program

Program Description

The Department of Statistics and Biostatistics offers graduate study leading to the degree Master of Science in Statistics. The program is flexible in order to serve the needs of students with varying backgrounds (including statistics, mathematics, computer science, engineering, business, economics and other quantitative fields) and with different career objectives. The program includes concentrations in Actuarial Science, Applied Statistics, Data Science, and Mathematical Statistics. All students are expected to master a wide variety of applied statistical, computational, and probabilistic techniques and the theoretical foundations upon which these techniques are based. Students are expected to be familiar with

recent developments in the field and to be able to use the statistical literature to learn new techniques and theories throughout their professional careers. In addition to the general requirements stated elsewhere in this catalog, students must satisfy the departmental requirements stated in the following paragraphs.

Students interested in pursuing an M.S. degree in Biostatistics should see the Biostatistics chapter in the university catalog.

Career Opportunities

Actuary • Biostatistician • Business Analyst • Census Analyst • Credit Analyst • Customer Analytics Specialist • Data Analyst • Data Manager • Data Scientist • Data Visualization Designer • Educational Researcher • Financial Modeler • Information Systems Analyst • Marketing Analytics Specialist • Quality Control Specialist • R programmer • Research Statistician • Sales Analyst • SAS Programmer • Statistical Programmer • Sports Analyst • Statistician • Survey Designer • Systems Analyst • Teacher

Admission Requirements

- A baccalaureate degree or equivalent.
- Differential and Integral Calculus (MATH 130, 131).
- Departmental approval.

In addition to the above minimum requirements for admission, if students have some of the following background they will be at an advantage both as to selection for admission to the program and optimal progress toward the degree if admitted:

- interest or experience in a setting where studies or experiments are conducted for the collection of data.
- multiple integration and infinite series
- matrix algebra
- basic statistics and probability
- knowledge of a computer programming language

Student Standing and Progress Toward the Degree

Advancement to Candidacy Requirements

- Completion of at least 16 semester units of approved coursework beyond the baccalaureate, with an average of "B" (3.0) or higher.
- Fulfillment of the University Writing Skills Requirement. For information on meeting the University Writing Skills Requirement, see the Testing Office website at www.csueastbay.edu/testing or call 510.885.3661.
- Departmental approval.

Cause for Dismissal from Program

Students may be dismissed from the program at any time "for cause." "For cause" includes, but is not limited to, poor academic performance, violation of the student code of conduct, academic dishonesty, and/or interference with the educational environment.

Program Learning Outcomes

Students graduating with an M.S. in Statistics from Cal State East Bay will be able to:

- Apply statistical methodologies, including a) descriptive statistics and graphical displays, b) probability models for uncertainty, stochastic processes, and distribution theory, c) hypothesis testing and confidence intervals, d) ANOVA and regression models (including linear, and multiple linear) and analysis of residuals from models and trends at the Master's level.
- Derive basic theory underlying these methodologies.
- Model practical problems for solutions using these methodologies.
- Produce relevant computer output using standard statistical software and interpret the results appropriately.
- Communicate statistical concepts and analytical results clearly and appropriately to others; and,
- Employ theory, concepts, and terminology at a level that supports lifelong learning of related methodologies.

Statistics Degree Requirements (32 units)

Foundation Requirements

The M.S. in Statistics program consists of at least 32 semester units of approved upper division and graduate work. The university requirement for the minimum number of 600-level units applies. All work applied toward the 32 units must be at an average grade of "B" (3.0) or higher. No graduate-level required course may be at a grade below "B-."

Core Courses

The following 22 units are required:

- STAT 620 - Probability and Statistical Theory *Units: 4*
- STAT 630 - Statistical Methods *Units: 4*
- STAT 631 - Analysis of Variance Models *Units: 4*
- STAT 632 - Linear and Logistic Regression *Units: 4*
- STAT 640 - Advanced Statistical Theory *Units: 4*

And, one of:

- STAT 641 - Bootstrapping Methods *Units: 2*
- STAT 675 - Advanced Stochastic Processes and Simulation *Units: 2*

Concentrations

Students may select one (1) concentration listed below for 8 units, or students may choose no concentration that requires 8 units of approved electives to complete the degree:

- Statistics, M.S. (*See "Additional Electives"*)
- Statistics, M.S.: Actuarial Science Concentration
- Statistics, M.S.: Applied Statistics Concentration
- Statistics, M.S.: Data Science Concentration
- Statistics, M.S.: Mathematical Statistics Concentration

Capstone Requirements

The following capstone for 2 units is required:

- STAT 692 - Comprehensive Exam Review *Units: 2*

Data Science Concentration

Choose a minimum of 8 units from the following:

- STAT 650 - Advanced R for Data Science *Units: 2*
- STAT 651 - Data Visualization *Units: 2*
- STAT 652 - Statistical Learning *Units: 2*
- STAT 653 - Statistical Natural Language Processing *Units: 2*

Other Graduate & Post-Baccalaureate Degree Requirements

In addition to departmental requirements, every student must also satisfy the University requirements for graduation as described throughout this catalog. These include the 70% unit residence requirement; the five-year rule on currency of subject matter; the minimum number of units in 600-level courses; the "C" minimum grade for each graduate course; the 3.00 cumulative grade point average; and the University Writing Skills Requirement.

Note: For information on meeting the University Writing Skills Requirement, see the Testing Office website at www.csueastbay.edu/testing or call (510) 885-3661.

Department Courses Listed by Course Type

Statistics and Biostatistics Courses

Department of Statistics and Biostatistics

Go to information for this department.

Courses

Biostatistics: Graduate

- • BSTA 661 - Categorical Data Analysis *Units: 2*
- • BSTA 662 - Survival Analysis *Units: 2*
- • BSTA 663 - Clinical Trials in the Pharmaceutical and Biomedical Industries *Units: 2*
- • BSTA 668 - Longitudinal Data Analysis *Units: 2*

Statistics

- • STAT 100 - Elements of Statistics and Probability *Units: 3 ; G.E./G.R. Area: B4*
- • STAT 100A - Statistics Principles *Units: 1*
- • STAT 101 - Statistics in Everyday Life *Units: 3 ; G.E./G.R. Area: B4*
- • STAT 101A - Everyday Statistics Principles *Units: 1*
- • STAT 110 - Elements of Statistics for Business and Economics *Units: 3*
- • STAT 303 - Statistical Methods in Biology *Units: 3*

- • STAT 303A - Biostatistics for Health Science *Units: 3*
- • STAT 305 - Statistics: From Data to Decisions *Units: 3*
- • STAT 310 - Statistical Methods in the Social Sciences *Units: 3*
- • STAT 311 - Data Analysis using Statistical Packages *Units: 3*
- • STAT 315 - Exploring and Analyzing Data *Units: 3*
- • STAT 316 - Statistics and Probability for Science and Engineering *Units: 3*
- • STAT 320 - Introduction to Probability Theory I *Units: 3*
- • STAT 321 - Probability Through Simulation *Units: 3*
- • STAT 330 - Statistical Inference *Units: 3*
- • STAT 331 - Introduction to Analysis of Variance *Units: 3*
- • STAT 351 - Sampling Procedures for Surveys *Units: 3*
- • STAT 401 - Analysis of Variance for Psychology *Units: 3 ; G.E./G.R. Area: D4*
- • STAT 432 - Introduction to Linear Regression and Logistic Regression *Units: 3*
- • STAT 450 - Introduction to R for Data Science *Units: 3*
- • STAT 451 - Introduction to Data Visualization *Units: 3*
- • STAT 452 - Introduction to Statistical Learning *Units: 3*
- • STAT 460 - Advanced Statistical Package Usage *Units: 3*
- • STAT 473 - Introduction to Nonparametric Statistics *Units: 3*
- • STAT 474 - Introduction to Time Series and Forecasting *Units: 3*
- • STAT 475 - Introduction to Stochastic Processes *Units: 3*
- • STAT 481 - Bayesian Statistics *Units: 3*
- • STAT 490 - Independent Study *Units: 1-4*
- • STAT 495 - Data Analysis with SAS *Units: 3*
- • STAT 497 - Issues in Statistics *Units: 3*
- • STAT 498 - Internship *Units: 1-3*

Statistics: Graduate

- • STAT 620 - Probability and Statistical Theory *Units: 4*
- • STAT 630 - Statistical Methods *Units: 4*
- • STAT 631 - Analysis of Variance Models *Units: 4*
- • STAT 632 - Linear and Logistic Regression *Units: 4*
- • STAT 640 - Advanced Statistical Theory *Units: 4*
- • STAT 641 - Bootstrapping Methods *Units: 2*
- • STAT 650 - Advanced R for Data Science *Units: 2*
- • STAT 651 - Data Visualization *Units: 2*
- • STAT 652 - Statistical Learning *Units: 2*
- • STAT 653 - Statistical Natural Language Processing *Units: 2*
- • STAT 654 - Introduction to Applied Deep Learning *Units: 2*
- • STAT 660 - Advanced SAS I *Units: 2*
- • STAT 661 - Categorical Data Analysis *Units: 2*
- • STAT 671 - Advanced JMP *Units: 2*
- • STAT 672 - Advanced Multivariate Statistics *Units: 2*
- • STAT 673 - Nonparametric Statistical Methods *Units: 2*
- • STAT 674 - Time Series *Units: 2*
- • STAT 675 - Advanced Stochastic Processes and Simulation *Units: 2*
- • STAT 676 - Advanced Probability *Units: 4*
- • STAT 681 - Bayesian Statistics *Units: 2*
- • STAT 690 - Independent Study *Units: 1-4*

- • STAT 692 - Comprehensive Exam Review *Units: 2*
- • STAT 694 - Applied Research in Statistics and Biostatistics *Units: 1-4*
- • STAT 697 - Issues in Statistics *Units: 3*
- • STAT 698 - Internship *Units: 1-3*

Statistics, M.S.: Mathematical Statistics Concentration

Statistics, M.S. Program

Program Description

The Department of Statistics and Biostatistics offers graduate study leading to the degree Master of Science in Statistics. The program is flexible in order to serve the needs of students with varying backgrounds (including statistics, mathematics, computer science, engineering, business, economics and other quantitative fields) and with different career objectives. The program includes concentrations in Actuarial Science, Applied Statistics, Data Science, and Mathematical Statistics. All students are expected to master a wide variety of applied statistical, computational, and probabilistic techniques and the theoretical foundations upon which these techniques are based. Students are expected to be familiar with recent developments in the field and to be able to use the statistical literature to learn new techniques and theories throughout their professional careers. In addition to the general requirements stated elsewhere in this catalog, students must satisfy the departmental requirements stated in the following paragraphs.

Students interested in pursuing an M.S. degree in Biostatistics should see the Biostatistics chapter in the university catalog.

Career Opportunities

Actuary • Biostatistician • Business Analyst • Census Analyst • Credit Analyst • Customer Analytics Specialist • Data Analyst • Data Manager • Data Scientist • Data Visualization Designer • Educational Researcher • Financial Modeler • Information Systems Analyst • Marketing Analytics Specialist • Quality Control Specialist • R programmer • Research Statistician • Sales Analyst • SAS Programmer • Statistical Programmer • Sports Analyst • Statistician • Survey Designer • Systems Analyst • Teacher

Admission Requirements

- A baccalaureate degree or equivalent.
- Differential and Integral Calculus (MATH 130, 131).
- Departmental approval.

In addition to the above minimum requirements for admission, if students have some of the following background they will be at an advantage both as to selection for admission to the program and optimal progress toward the degree if admitted:

- interest or experience in a setting where studies or experiments are conducted for the collection of data.
- multiple integration and infinite series
- matrix algebra
- basic statistics and probability
- knowledge of a computer programming language

Student Standing and Progress Toward the Degree

Advancement to Candidacy Requirements

- Completion of at least 16 semester units of approved coursework beyond the baccalaureate, with an average of "B" (3.0) or higher.
- Fulfillment of the University Writing Skills Requirement. For information on meeting the University Writing Skills Requirement, see the Testing Office website at www.csueastbay.edu/testing or call 510.885.3661.
- Departmental approval.

Cause for Dismissal from Program

Students may be dismissed from the program at any time "for cause." "For cause" includes, but is not limited to, poor academic performance, violation of the student code of conduct, academic dishonesty, and/or interference with the educational environment.

Program Learning Outcomes

Students graduating with an M.S. in Statistics from Cal State East Bay will be able to:

- Apply statistical methodologies, including a) descriptive statistics and graphical displays, b) probability models for uncertainty, stochastic processes, and distribution theory, c) hypothesis testing and confidence intervals, d) ANOVA and regression models (including linear, and multiple linear) and analysis of residuals from models and trends at the Master's level.
- Derive basic theory underlying these methodologies.
- Model practical problems for solutions using these methodologies.
- Produce relevant computer output using standard statistical software and interpret the results appropriately.
- Communicate statistical concepts and analytical results clearly and appropriately to others; and,
- Employ theory, concepts, and terminology at a level that supports lifelong learning of related methodologies.

Statistics Degree Requirements (32 units)

Foundation Requirements

The M.S. in Statistics program consists of at least 32 semester units of approved upper division and graduate work. The university requirement for the minimum number of 600-level units applies. All work applied toward the 32 units must be at an average grade of "B" (3.0) or higher. No graduate-level required course may be at a grade below "B-."

Core Courses

The following 22 units are required:

- STAT 620 - Probability and Statistical Theory *Units: 4*
- STAT 630 - Statistical Methods *Units: 4*

- STAT 631 - Analysis of Variance Models *Units: 4*
- STAT 632 - Linear and Logistic Regression *Units: 4*
- STAT 640 - Advanced Statistical Theory *Units: 4*

And, one of:

- STAT 641 - Bootstrapping Methods *Units: 2*
- STAT 675 - Advanced Stochastic Processes and Simulation *Units: 2*

Concentrations

Students may select one (1) concentration listed below for 8 units, or students may choose no concentration that requires 8 units of approved electives to complete the degree:

- Statistics, M.S. (*See "Additional Electives"*)
- Statistics, M.S.: Actuarial Science Concentration
- Statistics, M.S.: Applied Statistics Concentration
- Statistics, M.S.: Data Science Concentration
- Statistics, M.S.: Mathematical Statistics Concentration

Capstone Requirements

The following capstone for 2 units is required:

- STAT 692 - Comprehensive Exam Review *Units: 2*

Mathematical Statistics Concentration

Choose a minimum of 8 units from the following:

- MATH 310 - Linear Algebra Theory *Units: 3*
- MATH 330 - Analysis I *Units: 3*
- MATH 331 - Analysis II *Units: 3*
- STAT 650 - Advanced R for Data Science *Units: 2*
- STAT 675 - Advanced Stochastic Processes and Simulation *Units: 2*
- STAT 681 - Bayesian Statistics *Units: 2*

Other Graduate & Post-Baccalaureate Degree Requirements

In addition to departmental requirements, every student must also satisfy the University requirements for graduation as described throughout this catalog. These include the 70% unit residence requirement; the five-year rule on currency of subject matter; the minimum number of units in 600-level courses; the "C" minimum grade for each graduate course; the 3.00 cumulative grade point average; and the University Writing Skills Requirement.

Note: For information on meeting the University Writing Skills Requirement, see the Testing Office website at www.csueastbay.edu/testing or call (510) 885-3661.

Department Courses Listed by Course Type

Statistics and Biostatistics Courses

Department of Statistics and Biostatistics

Go to information for this department.

Courses

Biostatistics: Graduate

- • BSTA 661 - Categorical Data Analysis *Units: 2*
- • BSTA 662 - Survival Analysis *Units: 2*
- • BSTA 663 - Clinical Trials in the Pharmaceutical and Biomedical Industries *Units: 2*
- • BSTA 668 - Longitudinal Data Analysis *Units: 2*

Statistics

- • STAT 100 - Elements of Statistics and Probability *Units: 3 ; G.E./G.R. Area: B4*
- • STAT 100A - Statistics Principles *Units: 1*
- • STAT 101 - Statistics in Everyday Life *Units: 3 ; G.E./G.R. Area: B4*
- • STAT 101A - Everyday Statistics Principles *Units: 1*
- • STAT 110 - Elements of Statistics for Business and Economics *Units: 3*
- • STAT 303 - Statistical Methods in Biology *Units: 3*
- • STAT 303A - Biostatistics for Health Science *Units: 3*
- • STAT 305 - Statistics: From Data to Decisions *Units: 3*
- • STAT 310 - Statistical Methods in the Social Sciences *Units: 3*
- • STAT 311 - Data Analysis using Statistical Packages *Units: 3*
- • STAT 315 - Exploring and Analyzing Data *Units: 3*
- • STAT 316 - Statistics and Probability for Science and Engineering *Units: 3*
- • STAT 320 - Introduction to Probability Theory I *Units: 3*
- • STAT 321 - Probability Through Simulation *Units: 3*
- • STAT 330 - Statistical Inference *Units: 3*
- • STAT 331 - Introduction to Analysis of Variance *Units: 3*
- • STAT 351 - Sampling Procedures for Surveys *Units: 3*
- • STAT 401 - Analysis of Variance for Psychology *Units: 3 ; G.E./G.R. Area: D4*
- • STAT 432 - Introduction to Linear Regression and Logistic Regression *Units: 3*
- • STAT 450 - Introduction to R for Data Science *Units: 3*
- • STAT 451 - Introduction to Data Visualization *Units: 3*
- • STAT 452 - Introduction to Statistical Learning *Units: 3*
- • STAT 460 - Advanced Statistical Package Usage *Units: 3*
- • STAT 473 - Introduction to Nonparametric Statistics *Units: 3*
- • STAT 474 - Introduction to Time Series and Forecasting *Units: 3*
- • STAT 475 - Introduction to Stochastic Processes *Units: 3*
- • STAT 481 - Bayesian Statistics *Units: 3*
- • STAT 490 - Independent Study *Units: 1-4*
- • STAT 495 - Data Analysis with SAS *Units: 3*
- • STAT 497 - Issues in Statistics *Units: 3*
- • STAT 498 - Internship *Units: 1-3*

Statistics: Graduate

- • STAT 620 - Probability and Statistical Theory *Units: 4*
- • STAT 630 - Statistical Methods *Units: 4*
- • STAT 631 - Analysis of Variance Models *Units: 4*
- • STAT 632 - Linear and Logistic Regression *Units: 4*
- • STAT 640 - Advanced Statistical Theory *Units: 4*
- • STAT 641 - Bootstrapping Methods *Units: 2*
- • STAT 650 - Advanced R for Data Science *Units: 2*
- • STAT 651 - Data Visualization *Units: 2*
- • STAT 652 - Statistical Learning *Units: 2*
- • STAT 653 - Statistical Natural Language Processing *Units: 2*
- • STAT 654 - Introduction to Applied Deep Learning *Units: 2*
- • STAT 660 - Advanced SAS I *Units: 2*
- • STAT 661 - Categorical Data Analysis *Units: 2*
- • STAT 671 - Advanced JMP *Units: 2*
- • STAT 672 - Advanced Multivariate Statistics *Units: 2*
- • STAT 673 - Nonparametric Statistical Methods *Units: 2*
- • STAT 674 - Time Series *Units: 2*
- • STAT 675 - Advanced Stochastic Processes and Simulation *Units: 2*
- • STAT 676 - Advanced Probability *Units: 4*
- • STAT 681 - Bayesian Statistics *Units: 2*
- • STAT 690 - Independent Study *Units: 1-4*
- • STAT 692 - Comprehensive Exam Review *Units: 2*
- • STAT 694 - Applied Research in Statistics and Biostatistics *Units: 1-4*
- • STAT 697 - Issues in Statistics *Units: 3*
- • STAT 698 - Internship *Units: 1-3*

Minor

Biostatistics Minor

Minor Requirements (15 units)

The minor in biostatistics is designed to provide a general background in statistics for students majoring in other areas. It is of particular value to students majoring in such disciplines as biology and health sciences. The minor in biostatistics will broaden students' understanding of statistics with applications to biological sciences and will expand employment opportunities. The minor consists of 15 units.

Required Courses

Note: Some courses have prerequisites not listed in the minor.

Choose one (1) of the following pair of courses for 6 units:

- STAT 303 - Statistical Methods in Biology *Units: 3*
- And STAT 401 - Analysis of Variance for Psychology *Units: 3 ; G.E./G.R. Area: D4*
- OR
- STAT 330 - Statistical Inference *Units: 3*
- And STAT 331 - Introduction to Analysis of Variance *Units: 3*

Then, take one (1) of the statistical package courses for 3 units:

- **STAT 311 - Data Analysis using Statistical Packages** *Units: 3*
- **OR STAT 495 - Data Analysis with SAS** *Units: 3*

Plus, take the following required course for 3 units:

- **STAT 432 - Introduction to Linear Regression and Logistic Regression** *Units: 3*

Elective Course

Choose one (1) course for 3 units from the following:

- **STAT 305 - Statistics: From Data to Decisions** *Units: 3*
- **STAT 315 - Exploring and Analyzing Data** *Units: 3*
- **STAT 351 - Sampling Procedures for Surveys** *Units: 3*
- **STAT 451 - Introduction to Data Visualization** *Units: 3*
- **STAT 473 - Introduction to Nonparametric Statistics** *Units: 3*

Department Courses Listed by Course Type

Statistics and Biostatistics Courses

Department of Statistics and Biostatistics

Go to information for this department.

Courses

Biostatistics: Graduate

- • **BSTA 661 - Categorical Data Analysis** *Units: 2*
- • **BSTA 662 - Survival Analysis** *Units: 2*
- • **BSTA 663 - Clinical Trials in the Pharmaceutical and Biomedical Industries** *Units: 2*
- • **BSTA 668 - Longitudinal Data Analysis** *Units: 2*

Statistics

- • **STAT 100 - Elements of Statistics and Probability** *Units: 3 ; G.E./G.R. Area: B4*
- • **STAT 100A - Statistics Principles** *Units: 1*
- • **STAT 101 - Statistics in Everyday Life** *Units: 3 ; G.E./G.R. Area: B4*
- • **STAT 101A - Everyday Statistics Principles** *Units: 1*
- • **STAT 110 - Elements of Statistics for Business and Economics** *Units: 3*
- • **STAT 303 - Statistical Methods in Biology** *Units: 3*
- • **STAT 303A - Biostatistics for Health Science** *Units: 3*
- • **STAT 305 - Statistics: From Data to Decisions** *Units: 3*
- • **STAT 310 - Statistical Methods in the Social Sciences** *Units: 3*
- • **STAT 311 - Data Analysis using Statistical Packages** *Units: 3*
- • **STAT 315 - Exploring and Analyzing Data** *Units: 3*

- • STAT 316 - Statistics and Probability for Science and Engineering *Units: 3*
- • STAT 320 - Introduction to Probability Theory I *Units: 3*
- • STAT 321 - Probability Through Simulation *Units: 3*
- • STAT 330 - Statistical Inference *Units: 3*
- • STAT 331 - Introduction to Analysis of Variance *Units: 3*
- • STAT 351 - Sampling Procedures for Surveys *Units: 3*
- • STAT 401 - Analysis of Variance for Psychology *Units: 3 ; G.E./G.R. Area: D4*
- • STAT 432 - Introduction to Linear Regression and Logistic Regression *Units: 3*
- • STAT 450 - Introduction to R for Data Science *Units: 3*
- • STAT 451 - Introduction to Data Visualization *Units: 3*
- • STAT 452 - Introduction to Statistical Learning *Units: 3*
- • STAT 460 - Advanced Statistical Package Usage *Units: 3*
- • STAT 473 - Introduction to Nonparametric Statistics *Units: 3*
- • STAT 474 - Introduction to Time Series and Forecasting *Units: 3*
- • STAT 475 - Introduction to Stochastic Processes *Units: 3*
- • STAT 481 - Bayesian Statistics *Units: 3*
- • STAT 490 - Independent Study *Units: 1-4*
- • STAT 495 - Data Analysis with SAS *Units: 3*
- • STAT 497 - Issues in Statistics *Units: 3*
- • STAT 498 - Internship *Units: 1-3*

Statistics: Graduate

- • STAT 620 - Probability and Statistical Theory *Units: 4*
- • STAT 630 - Statistical Methods *Units: 4*
- • STAT 631 - Analysis of Variance Models *Units: 4*
- • STAT 632 - Linear and Logistic Regression *Units: 4*
- • STAT 640 - Advanced Statistical Theory *Units: 4*
- • STAT 641 - Bootstrapping Methods *Units: 2*
- • STAT 650 - Advanced R for Data Science *Units: 2*
- • STAT 651 - Data Visualization *Units: 2*
- • STAT 652 - Statistical Learning *Units: 2*
- • STAT 653 - Statistical Natural Language Processing *Units: 2*
- • STAT 654 - Introduction to Applied Deep Learning *Units: 2*
- • STAT 660 - Advanced SAS I *Units: 2*
- • STAT 661 - Categorical Data Analysis *Units: 2*
- • STAT 671 - Advanced JMP *Units: 2*
- • STAT 672 - Advanced Multivariate Statistics *Units: 2*
- • STAT 673 - Nonparametric Statistical Methods *Units: 2*
- • STAT 674 - Time Series *Units: 2*
- • STAT 675 - Advanced Stochastic Processes and Simulation *Units: 2*
- • STAT 676 - Advanced Probability *Units: 4*
- • STAT 681 - Bayesian Statistics *Units: 2*
- • STAT 690 - Independent Study *Units: 1-4*
- • STAT 692 - Comprehensive Exam Review *Units: 2*
- • STAT 694 - Applied Research in Statistics and Biostatistics *Units: 1-4*
- • STAT 697 - Issues in Statistics *Units: 3*
- • STAT 698 - Internship *Units: 1-3*

Statistics Minor

Minor Requirements (18 units)

Basic Statistics

Choose one (1) course for 3 units from the following:

- STAT 100 - Elements of Statistics and Probability *Units: 3 ; G.E./G.R. Area: B4*
- STAT 110 - Elements of Statistics for Business and Economics *Units: 3*
- STAT 303 - Statistical Methods in Biology *Units: 3*

Upper Division Courses

Choose five (5) course for 15 units from the following:

- STAT 305 - Statistics: From Data to Decisions *Units: 3*
- STAT 310 - Statistical Methods in the Social Sciences *Units: 3*
- STAT 311 - Data Analysis using Statistical Packages *Units: 3*
- OR STAT 495 - Data Analysis with SAS *Units: 3*
- STAT 315 - Exploring and Analyzing Data *Units: 3*
- STAT 330 - Statistical Inference *Units: 3*
- STAT 351 - Sampling Procedures for Surveys *Units: 3*
- STAT 401 - Analysis of Variance for Psychology *Units: 3 ; G.E./G.R. Area: D4*
- STAT 432 - Introduction to Linear Regression and Logistic Regression *Units: 3*
- STAT 451 - Introduction to Data Visualization *Units: 3*
- STAT 452 - Introduction to Statistical Learning *Units: 3*
- STAT 473 - Introduction to Nonparametric Statistics *Units: 3*
- STAT 474 - Introduction to Time Series and Forecasting *Units: 3*

Department Courses Listed by Course Type

Statistics and Biostatistics Courses

Department of Statistics and Biostatistics

Go to information for this department.

Courses

Biostatistics: Graduate

- • BSTA 661 - Categorical Data Analysis *Units: 2*

- • BSTA 662 - Survival Analysis *Units: 2*
- • BSTA 663 - Clinical Trials in the Pharmaceutical and Biomedical Industries *Units: 2*
- • BSTA 668 - Longitudinal Data Analysis *Units: 2*

Statistics

- • STAT 100 - Elements of Statistics and Probability *Units: 3 ; G.E./G.R. Area: B4*
- • STAT 100A - Statistics Principles *Units: 1*
- • STAT 101 - Statistics in Everyday Life *Units: 3 ; G.E./G.R. Area: B4*
- • STAT 101A - Everyday Statistics Principles *Units: 1*
- • STAT 110 - Elements of Statistics for Business and Economics *Units: 3*
- • STAT 303 - Statistical Methods in Biology *Units: 3*
- • STAT 303A - Biostatistics for Health Science *Units: 3*
- • STAT 305 - Statistics: From Data to Decisions *Units: 3*
- • STAT 310 - Statistical Methods in the Social Sciences *Units: 3*
- • STAT 311 - Data Analysis using Statistical Packages *Units: 3*
- • STAT 315 - Exploring and Analyzing Data *Units: 3*
- • STAT 316 - Statistics and Probability for Science and Engineering *Units: 3*
- • STAT 320 - Introduction to Probability Theory I *Units: 3*
- • STAT 321 - Probability Through Simulation *Units: 3*
- • STAT 330 - Statistical Inference *Units: 3*
- • STAT 331 - Introduction to Analysis of Variance *Units: 3*
- • STAT 351 - Sampling Procedures for Surveys *Units: 3*
- • STAT 401 - Analysis of Variance for Psychology *Units: 3 ; G.E./G.R. Area: D4*
- • STAT 432 - Introduction to Linear Regression and Logistic Regression *Units: 3*
- • STAT 450 - Introduction to R for Data Science *Units: 3*
- • STAT 451 - Introduction to Data Visualization *Units: 3*
- • STAT 452 - Introduction to Statistical Learning *Units: 3*
- • STAT 460 - Advanced Statistical Package Usage *Units: 3*
- • STAT 473 - Introduction to Nonparametric Statistics *Units: 3*
- • STAT 474 - Introduction to Time Series and Forecasting *Units: 3*
- • STAT 475 - Introduction to Stochastic Processes *Units: 3*
- • STAT 481 - Bayesian Statistics *Units: 3*
- • STAT 490 - Independent Study *Units: 1-4*
- • STAT 495 - Data Analysis with SAS *Units: 3*
- • STAT 497 - Issues in Statistics *Units: 3*
- • STAT 498 - Internship *Units: 1-3*

Statistics: Graduate

- • STAT 620 - Probability and Statistical Theory *Units: 4*
- • STAT 630 - Statistical Methods *Units: 4*
- • STAT 631 - Analysis of Variance Models *Units: 4*
- • STAT 632 - Linear and Logistic Regression *Units: 4*
- • STAT 640 - Advanced Statistical Theory *Units: 4*
- • STAT 641 - Bootstrapping Methods *Units: 2*
- • STAT 650 - Advanced R for Data Science *Units: 2*
- • STAT 651 - Data Visualization *Units: 2*
- • STAT 652 - Statistical Learning *Units: 2*
- • STAT 653 - Statistical Natural Language Processing *Units: 2*

- • STAT 654 - Introduction to Applied Deep Learning *Units: 2*
- • STAT 660 - Advanced SAS I *Units: 2*
- • STAT 661 - Categorical Data Analysis *Units: 2*
- • STAT 671 - Advanced JMP *Units: 2*
- • STAT 672 - Advanced Multivariate Statistics *Units: 2*
- • STAT 673 - Nonparametric Statistical Methods *Units: 2*
- • STAT 674 - Time Series *Units: 2*
- • STAT 675 - Advanced Stochastic Processes and Simulation *Units: 2*
- • STAT 676 - Advanced Probability *Units: 4*
- • STAT 681 - Bayesian Statistics *Units: 2*
- • STAT 690 - Independent Study *Units: 1-4*
- • STAT 692 - Comprehensive Exam Review *Units: 2*
- • STAT 694 - Applied Research in Statistics and Biostatistics *Units: 1-4*
- • STAT 697 - Issues in Statistics *Units: 3*
- • STAT 698 - Internship *Units: 1-3*

Certificate

Applied Statistics Certificate

The Certificate in Applied Statistics combines basic work in statistics, which is required for many majors and graduate degree programs, with additional coursework in applied statistics. The coursework is designed to broaden the abilities of scientists and social scientists who already have degrees, but who need more training in applying statistics to their research and employment activities.

The minimum required GPA for the awarding of the certificate is 2.0. Consult an advisor in the Department of Statistics and Biostatistics for clarification and interpretation of requirements.

The certificate consists of 15 units, not including prerequisites. At least 4 units must be at the graduate level.

Applied Statistical Methodology

A total of 6-8 units are required from the following Methodology groups:

Choose one (1) of the following courses for 3-4 units:

- STAT 303 - Statistical Methods in Biology *Units: 3*
- STAT 310 - Statistical Methods in the Social Sciences *Units: 3*
- STAT 316 - Statistics and Probability for Science and Engineering *Units: 3*
- STAT 330 - Statistical Inference *Units: 3*
- STAT 630 - Statistical Methods *Units: 4*

Choose one (1) of the following second-level courses for 3-4 units (note that STAT 631 has STAT 630 as a prerequisite):

- STAT 331 - Introduction to Analysis of Variance *Units: 3*
- STAT 401 - Analysis of Variance for Psychology *Units: 3 ; G.E./G.R. Area: D4*
- STAT 631 - Analysis of Variance Models *Units: 4*

Data Analysis with Packages

Choose one (1) course from the following for 2-3 units:

- STAT 450 - Introduction to R for Data Science *Units: 3*
- STAT 451 - Introduction to Data Visualization *Units: 3*
- STAT 495 - Data Analysis with SAS *Units: 3*
- STAT 650 - Advanced R for Data Science *Units: 2*
- STAT 651 - Data Visualization *Units: 2*
- STAT 660 - Advanced SAS I *Units: 2*
- STAT 671 - Advanced JMP *Units: 2*

Electives

Take 4-7 units from the list below to complete the minimum of 15 units for the certificate.

- STAT 351 - Sampling Procedures for Surveys *Units: 3*
- STAT 432 - Introduction to Linear Regression and Logistic Regression *Units: 3*
- STAT 452 - Introduction to Statistical Learning *Units: 3*
- STAT 473 - Introduction to Nonparametric Statistics *Units: 3*
- STAT 632 - Linear and Logistic Regression *Units: 4*
- STAT 652 - Statistical Learning *Units: 2*
- STAT 653 - Statistical Natural Language Processing *Units: 2*
- STAT 672 - Advanced Multivariate Statistics *Units: 2*
- STAT 673 - Nonparametric Statistical Methods *Units: 2*
- Or any of the statistical package courses not used above.

Mathematical Statistics Certificate

The Certificate in Mathematical Statistics is designed to enhance a student's understanding of theoretical statistics and probability in preparation for employment in the engineering, information science, and technology sectors. The certificate also prepares students for further graduate study.

The minimum required GPA for the awarding of the certificate is 3.0. Consult an advisor in the Department of Statistics and Biostatistics for clarification and interpretation of requirements. The certificate consists of 12 graduate level units, plus any necessary prerequisites.

Required Courses

- STAT 620 - Probability and Statistical Theory *Units: 4*
- STAT 640 - Advanced Statistical Theory *Units: 4*
- STAT 676 - Advanced Probability *Units: 4*

Department of Teacher Education

The Department Office is located on the 2nd Floor of the AE building, Room 250.

Open Hours: 8:30 am to 5:00 pm Monday through Friday.

Faculty

Professors Emeriti

Bijan B. Gillani, Ed.D. University of Southern California

Shira Lubliner, Ed.D. University of San Francisco

James J. Zarrillo, Ph.D. Claremont Graduate School

Professors

Li-Ling Chen, Ph.D. University of Texas at Austin

Eric Engdahl (Chair), Ph.D. University of California, Los Angeles

Denise M. Fleming, Ph.D. University of California, Berkeley

Patricia D. Irvine, Ph.D. University of New Mexico

James M. Mitchell, Ph.D. University of Minnesota, Minneapolis

Carolyn Nelson, Ed.D. University of San Francisco

Lettie Ramirez, Ph.D. University of Texas at Austin

Associate Professors

Valerie A. Helgren-Lempesis, Ed.D. University of Miami

Michele Korb, Ph.D. Marquette University

Assistant Professors

Talya Kemper, Ph.D. University of Washington

Julie McNamara, Ph.D. University of California, Berkeley

Shadi Roshandel, Ph.D. University of California, Santa Barbara

Lyn Scott, Ph.D. University of California, Berkeley

Mary Soto, Ed.D. University of Texas at Brownsville

Mission Statement

We prepare teachers who are dedicated to the academic achievement of all students, and who demonstrate a commitment to life-long, professional growth and school leadership. The Department of Teacher Education offers post-baccalaureate and graduate programs to prepare teachers who are committed to improving school practices for California's diverse student populations and who can model such practices in their own classrooms.

About the Department

Use our university website link to learn more about what the Teacher Education Department has to offer.

- edTPA
- Scholarships
- Department Initiatives
- Information Sessions
- Credential Student Service Center (CSSC)
- And more...

Credential

Concurrent Multiple Subject and Education Specialist Credential Program (TED/SPED)

Concurrent Multiple Subject and Education Specialist Credential Program

Program Description

The TED/SPED program is an accelerated, dual credential program designed for candidates interested in a concurrent approach to completing all requirements for the Multiple Subject Credential, the Education Specialist Credential (Mild-Moderate Disabilities OR Moderate-Severe Disabilities), and the Master's Degree in Special Education. The accelerated format reduces the time for completion to four semesters and an initial summer session compared to seven semesters and an initial summer session if completed separately. The Multiple Subject Credential is required to earn an Education Specialist Credential.

Content courses containing the latest in research, evidence-based practices and fieldwork experiences provide candidates with a wide range of practical methods for addressing the diverse general and special education student learning, language and behavioral needs, thus enhancing the lives of individuals with and without exceptional needs, their families and communities.

Supervised fieldwork experiences provide opportunities for candidates to experience the multiple roles of the Education Specialist in the delivery of services. Candidates may work with students through teaching and assessment, co-teaching, inclusion support and case management.

Credential holders are authorized to teach and deliver services to individuals in grades K-22. The Multiple Subject Credential authorizes the holder to teach all subjects in a self-contained or an elementary school classroom (grades K-6 or K-8). The Education Specialist Credential authorizes the holder to teach any level, grades K-22, and deliver postsecondary transition services, including assessment and supporting services to individuals with disabilities. The program includes authorization to teach English Learners and students with Autism Spectrum Disorders as a part of the course of study..

This dual credential preparation emphasizes collaboration among general education and special education personnel and candidates' competence with core curriculum. Candidates thus have flexibility to assume a variety of roles during their careers with general and special education.

Career Opportunities

Individuals can provide services to children, youth and their families by being authorized to teach public school students within the general education program at the K-6 or K-8 levels. They may also work as teachers for students and young adults with disabilities in public and private schools, agencies and community colleges. Options for employment include special education positions, such as intervention specialists, inclusion specialists/support providers, learning center teachers, resource specialists, special class teachers, transition specialists, co-teachers and case managers. The Master's Degree in Special Education prepares candidates for leadership roles at the school site, within the district, SELPA (Special Education Local Planning Area, county office of education and instructional positions at community colleges. It enables candidates to work as lead teachers and department chairs, district specialists, program specialists, support teachers and community college instructors.

Admission Requirements

Applicants may only enter the dual credential TED/SPED program in the summer semester.

Before applying, all applicants should attend a "Credential Information Session." Students can register for a session on the Credential Student Service Center (CSSC) website.

- Bachelor's degree from accredited university
- Department Application
- Online University Application^[1]
- Minimum of 3.0 cumulative GPA.
- Pass the Multiple Subject California Subject Examination for Teachers (CSET) OR obtain a waiver for the CSET by completing an approved subject matter preparation program at a CSU.
- Statement of Purpose
- Pass a basic educational skills test approved by the California Commission on Teacher Credentialing (CTC), such as the such as the CBEST,
- Three letters of recommendation.
- U.S. Constitution course or exam.
- Certificate of Clearance.
- TB test.

Student Standing and Progress Toward Degree

- Completion of courses with a grade of B or higher.
- Completion of the University Writing Skills Test (WST)

Concurrent Multiple Subject and Education Specialist Credential Program Requirements (74 units)

Required Courses

The following 74 units are required for the credential:

- TED 505 - Teaching English Learners in the Multiple Subject Classroom *Units: 3*
- TED 508 - Curriculum & Instruction: Reading *Units: 3*
- TED 509 - Curriculum & Instruction: Language Arts and Social Studies *Units: 4*
- TED 510 - Curriculum & Instruction: Mathematics in a Multiple Subject Classroom *Units: 3*
- TED 511 - Curriculum & Instruction: Visual & Performing Arts *Units: 2*
- TED 512 - Curriculum & Instruction: Science in the Multiple Subject Classroom *Units: 3*
- TED 513 - Curriculum & Instruction: Health and Physical Education *Units: 2*
- TED 570 - Multiple Subject Fieldwork Seminar I *Units: 1*
- TED 571 - Multiple Subject Fieldwork Seminar II *Units: 1*
- TED 580 - Multiple Subject Student Teaching I *Units: 4*
- SPED 500 - Educating All Learners in Diverse Classrooms *Units: 4*
- SPED 603 - Teaming, Collaborative Educational Processes and Transition Services *Units: 4*
- SPED 604 - Individual and School-Wide Behavioral Needs, Mental Health & Positive Supports *Units: 4*
- SPED 605 - Communication and Technology *Units: 4*
- SPED 610 - Research and Professional Practices *Units: 4*
- SPED 693 - Capstone Research Project *Units: 4*
- SPED 601 - Educational Practices: Mild/Moderate Disabilities *Units: 4*
- OR SPED 602 - Evidence-based Practices: Moderate/Severe Disabilities *Units: 4*
- SPED 606 - Assessment: Students with Mild/Moderate Disabilities *Units: 4*
- OR SPED 608 - Instruction and Behavioral Supports and Strategies: Moderate-Severe Disabilities *Units: 4*
- SPED 607 - Curriculum and Instruction: Students with Mild/Moderate Disabilities *Units: 4*
- OR SPED 609 - Advanced Assessment and Curriculum: Moderate-Severe Disabilities *Units: 4*
- SPED 611 - Fieldwork I: Mild/Moderate Disabilities *Units: 3*
- OR SPED 615 - Fieldwork I: Moderate-Severe Disabilities *Units: 3*
- SPED 612 - Fieldwork II: Mild/Moderate Disabilities *Units: 3*
- OR SPED 616 - Fieldwork II: Moderate-Severe Disabilities *Units: 3*
- SPED 613 - Final Student Teaching: Mild/Moderate Disabilities *Units: 6*
- OR SPED 617 - Final Student Teaching: Moderate-Severe Disabilities *Units: 6*

Other Graduate & Post-Baccalaureate Degree Requirements

In addition to departmental requirements, every student must also satisfy the University requirements for graduation as described throughout this catalog. These include the 70% unit residence requirement; the five-year rule on currency of subject matter; the minimum number of units in 600-level courses; the "C" minimum grade for each graduate course; the 3.00 cumulative grade point average; and the University Writing Skills Requirement.

Note: For information on meeting the University Writing Skills Requirement, see the Testing Office website at www.csueastbay.edu/testing or call (510) 885-3661.

Department Courses Listed by Course Type

Teacher Education Courses

Department of Teacher Education

Go to information for this department.

Courses

Education: Interdisciplinary - Graduate

- • EDUI 610 - The Web as an Interactive Educational Tool *Units: 4*
- • EDUI 620 - Theory and Design of E-Learning *Units: 4*
- • EDUI 630 - Math, Science and Technology *Units: 4*
- • EDUI 640 - Research in Educational Technology *Units: 4*
- • EDUI 650 - Mobile Application Development *Units: 4*
- • EDUI 660 - Digital Graphics *Units: 4*
- • EDUI 670 - Principles of Instructional Design *Units: 4*
- • EDUI 680 - Current Technologies *Units: 2*
- • EDUI 690 - Independent Study *Units: 1-3*
- • EDUI 691 - University Thesis *Units: 1-4*
- • EDUI 692 - Comprehensive Examination Preparation *Units: 2*
- • EDUI 693 - Master's Project *Units: 4*
- • EDUI 695 - Educational Technology Internship *Units: 4*
- • EDUI 697 - Issues in Education Interdisciplinary Studies *Units: 3*
- • EDUI 699 - Department Thesis *Units: 4*

Education: Online Teaching and Learning

- • OTL 601 - Introduction to Online Teaching and Learning *Units: 3*
- • OTL 602 - Instructional Design Models for Online Learning *Units: 3*
- • OTL 603 - Technology Tools for Online Instruction *Units: 3*
- • OTL 604 - Designing Curriculum for Online Instruction *Units: 3*
- • OTL 605 - Educational Planning and Development for Online Programs *Units: 3*
- • OTL 606 - Research in Online Teaching and Learning *Units: 3*
- • OTL 607 - History and Culture of Online Learning Communities *Units: 3*
- • OTL 672 - Content Development for Online Learning *Units: 3*

- • OTL 673 - Supervising and Evaluating Online Teaching *Units: 3*
- • OTL 674 - Current Issues in Online Learning *Units: 3*
- • OTL 680 - Building the Online Environment *Units: 3*
- • OTL 681 - Creating Digital Media for Online Instruction *Units: 3*
- • OTL 682 - Designing and Implementing User Interfaces for Online Instruction *Units: 3*
- • OTL 683 - Providing Interactivity in the Online Environment *Units: 3*
- • OTL 693 - Capstone Project *Units: 3*

Teacher Education

- • TED 301 - Introduction to Education *Units: 3*
- • TED 302 - Introduction to Teaching *Units: 3*
- • TED 398 - Internship *Units: 1-3*
- • TED 420 - Art Skills for Teachers *Units: 3*
- • TED 425 - Arts Integration for Teachers *Units: 3*
- • TED 470 - Early Childhood Education: Integrated Language & Literacy Development *Units: 3*
- • TED 471 - Early Childhood Education: Integrated Math and Science *Units: 3*
- • TED 472 - Early Childhood Education: Integrated Arts and Social Studies *Units: 3*
- • TED 473 - Early Childhood Education: Inclusive Practices *Units: 3*
- • TED 474 - Early Childhood Education: Professional Seminar and Practicum *Units: 4*
- • TED 490 - Independent Study *Units: 1-4*
- • TED 497 - Issues in Teacher Education *Units: 3*

Teacher Education: Graduate

- • TED 535 - History Social Studies III: Instructional Methods in a Single Subject Classroom *Units: 3*
- • TED 600 - Introduction to Graduate Studies *Units: 1*
- • TED 601 - Professional Research Seminar I *Units: 1*
- • TED 602 - Professional Research Seminar II *Units: 1*
- • TED 603 - Professional Research Seminar III *Units: 1*
- • TED 611 - Reading and Synthesizing Research in Education *Units: 3*
- • TED 612 - Understanding Design and Planning Research in Education *Units: 3*
- • TED 613 - Implementing and Analyzing Research in P-12 *Units: 3*
- • TED 620 - Advanced Studies in Mathematics Education *Units: 3*
- • TED 621 - Advanced Studies in Science Education *Units: 3*
- • TED 622 - Advanced Studies in Expository Reading and Writing *Units: 3*
- • TED 623 - Advanced Studies in Methods for English Language Learners *Units: 3*
- • TED 624 - Advanced Integrated Arts for All Teachers *Units: 3*
- • TED 625 - Teachers as Agents of Change *Units: 3*
- • TED 626 - Advanced Studies in Curriculum and Instruction *Units: 3*
- • TED 627 - Advanced Educational Psychology *Units: 3*
- • TED 630 - Advanced Language & Literacy Development in Early Childhood Education *Units: 4*
- • TED 631 - Advanced Integrated Math & Science in Early Childhood Education *Units: 3*
- • TED 632 - Advanced Integrated Arts & Social Studies in Early Childhood Education *Units: 3*
- • TED 633 - Advanced Special Education Practices in Early Childhood Education *Units: 3*
- • TED 634 - Professional Leadership in Early Childhood Education *Units: 2*
- • TED 635 - Field Based Practicum in Early Childhood Education *Units: 2*
- • TED 660 - Literacy Research and Methods *Units: 3*
- • TED 661 - Reading Comprehension Research and Methods *Units: 2*
- • TED 662 - Culture of Literacy: Focus on Diversity *Units: 2*

- • TED 663 - Literacy Assessment *Units: 3*
- • TED 664 - Literacy Intervention *Units: 3*
- • TED 670 - The Science of Reading Foundations *Units: 3*
- • TED 671 - Early Literacy Foundations *Units: 3*
- • TED 672 - Secondary Literacy Foundations *Units: 3*
- • TED 687 - Reading Research & Evaluation *Units: 3*
- • TED 688 - Research in Education *Units: 1*
- • TED 690 - Independent Study *Units: 1-3*
- • TED 691 - University Thesis *Units: 1-4*
- • TED 692 - Comprehensive Examination Preparation *Units: 2*
- • TED 693 - Master's Project *Units: 3*
- • TED 695 - Practicum *Units: 1*
- • TED 697 - Issues in Teacher Education *Units: 1-4*
- • TED 698 - Internship *Units: 1-3*
- • TED 699 - Department Thesis *Units: 1-4*

Teacher Education: Post-Baccalaureate

- • TED 500 - Foundations of Multiple Subject Education *Units: 4*
- • TED 501 - Introduction to Teaching Emergent Bilinguals *Units: 1*
- • TED 502 - Inclusive Teaching Practices in a Multiple Subject Classroom *Units: 3*
- • TED 503 - Equitable Teaching Practices in a Multiple Subject Classroom *Units: 3*
- • TED 504 - Introduction to Teaching Special Populations *Units: 1*
- • TED 505 - Teaching English Learners in the Multiple Subject Classroom *Units: 3*
- • TED 507 - Technology in the Multiple Subject Classroom *Units: 2*
- • TED 508 - Curriculum & Instruction: Reading *Units: 3*
- • TED 509 - Curriculum & Instruction: Language Arts and Social Studies *Units: 4*
- • TED 510 - Curriculum & Instruction: Mathematics in a Multiple Subject Classroom *Units: 3*
- • TED 511 - Curriculum & Instruction: Visual & Performing Arts *Units: 2*
- • TED 512 - Curriculum & Instruction: Science in the Multiple Subject Classroom *Units: 3*
- • TED 513 - Curriculum & Instruction: Health and Physical Education *Units: 2*
- • TED 520 - Foundations of Single Subject Education *Units: 4*
- • TED 521 - Content Literacy for All Learners *Units: 4*
- • TED 522 - Introduction to Teaching Emergent Bilinguals *Units: 1*
- • TED 523 - Inclusive Teaching Practices in a Single Subject Classroom A *Units: 3*
- • TED 524 - Inclusive Teaching Practices in a Single Subject Classroom B *Units: 3*
- • TED 525 - Teaching Special Education Students in a Single Subject Classroom *Units: 1*
- • TED 528 - Technology in the Single Subject Classroom *Units: 2*
- • TED 529 - Professional Responsibilities in Education *Units: 3*
- • TED 530 - English I: Instructional Methods in a Single Subject Classroom *Units: 3*
- • TED 531 - English II: Instructional Methods in a Single Subject Classroom *Units: 3*
- • TED 532 - English III: Instructional Methods in a Single Subject Classroom *Units: 3*
- • TED 533 - Historical Social Studies I: Instructional Methods in a Single Subject Classroom *Units: 3*
- • TED 534 - History Social Studies II: Instructional Methods in a Single Subject Classroom *Units: 3*
- • TED 536 - Science I: Instructional Methods in a Single Subject Classroom *Units: 3*
- • TED 537 - Science II: Instructional Methods in a Single Subject Classroom *Units: 3*
- • TED 538 - Science III: Instructional Methods in a Single Subject Classroom *Units: 3*
- • TED 539 - Mathematics I: Instructional Methods in a Single Subject Classroom *Units: 3*
- • TED 540 - Mathematics II: Instructional Methods in a Single Subject Classroom *Units: 3*

- • TED 541 - Mathematics III: Instructional Methods in a Single Subject Classroom *Units: 3*
- • TED 542 - Visual Arts I: Instructional Methods in a Single Subject Classroom *Units: 3*
- • TED 543 - Visual Arts II: Instructional Methods in a Single Subject Classroom *Units: 3*
- • TED 544 - Visual Arts III: Instructional Methods in a Single Subject Classroom *Units: 3*
- • TED 545 - Music I: Instructional Methods in a Single Subject Classroom *Units: 3*
- • TED 546 - Music II: Instructional Methods in a Single Subject Classroom *Units: 3*
- • TED 547 - Music III: Instructional Methods in a Single Subject Classroom *Units: 3*
- • TED 548 - Physical Education I- Instructional Methods in a Single Subject Classroom *Units: 3*
- • TED 549 - Physical Education II- Instructional Methods in a Single Subject Classroom *Units: 3*
- • TED 550 - Physical Education III - Instructional Methods in a Single Subject Classroom *Units: 3*
- • TED 551 - Spanish I- Instructional Methods in a Single Subject Classroom *Units: 3*
- • TED 552 - Spanish II: Instructional Methods in a Single Subject Classroom *Units: 3*
- • TED 553 - Spanish III - Instructional Methods in a Single Subject Classroom *Units: 3*
- • TED 554 - French I - Instructional Methods in a Single Subject Classroom *Units: 3*
- • TED 555 - French II - Instructional Methods in a Single Subject Classroom *Units: 3*
- • TED 556 - French III - Instructional Methods in a Single Subject Classroom *Units: 3*
- • TED 557 - Hindi I: Instructional Methods in a Single Subject Classroom *Units: 3*
- • TED 558 - Hindi II: Instructional Methods in a Single Subject Classroom *Units: 3*
- • TED 559 - Hindi III: Instructional Methods in a Single Subject Classroom *Units: 3*
- • TED 560 - Chinese I: Instructional Methods in a Single Subject Classroom *Units: 3*
- • TED 561 - Chinese II: Instructional Methods in a Single Subject Classroom *Units: 3*
- • TED 562 - Chinese III: Instructional Methods in a Single Subject Classroom *Units: 3*
- • TED 570 - Multiple Subject Fieldwork Seminar I *Units: 1*
- • TED 571 - Multiple Subject Fieldwork Seminar II *Units: 1*
- • TED 575 - Single Subject Fieldwork Seminar I *Units: 1*
- • TED 576 - Single Subject Fieldwork Seminar II *Units: 1*
- • TED 580 - Multiple Subject Student Teaching I *Units: 4*
- • TED 581 - Multiple Subject Student Teaching II *Units: 5*
- • TED 582 - Multiple Subject Intern Teaching I *Units: 5*
- • TED 583 - Multiple Subject Intern Teaching II *Units: 5*
- • TED 585 - Single Subject Field Placement I *Units: 5*
- • TED 586 - Single Subject Field Placement II *Units: 5*
- • TED 587 - Single Subject Intern Teaching I *Units: 5*
- • TED 588 - Single Subject Intern Teaching II *Units: 5*

Multiple Subject Credential Program

Multiple Subject Credential

Credential requirements specified in this catalog are subject to changes made by the State of California.

Contact the Department of Teacher Education or the Credential Student Services Center (CSSC) for current regulations.

The Multiple Subject Credential program has been approved to be offered in a Hybrid delivery format.

Admission

Applicants may only enter the Multiple Subject, Single Subject, and TEDSPED credential programs in the summer session. Program admission is a simultaneous, two-part process. Applicants must meet both the Department and University requirements in order to begin the program. The Department file is maintained in the Credential Student Service Center (CSSC) and the steps outlined in this section are primarily related to Department admissions for post-baccalaureate applicants. The University file is processed by the University Graduate Admissions Office (referred to as "University") and can be monitored through the applicant's MyCSUEB account.

Multiple or Single Subject Credential Programs - Application Process and Admission Requirements

Before applying to the Multiple Subject or Single Subject Credential Program, all applicants should attend a "Credential Information Session." Several sessions are held every month except July and August. Individuals considering the program can also register for a session on the CSSC website.

- All applicants must submit the following documents to the CSSC in order to secure an interview:
 - A completed copy of the online University "Graduate and Post Baccalaureate Application" (see CSU Apply);
 - A completed online "Department of Teacher Education" application;
 - Statement of Purpose - 300-500 words, typed, double-spaced; see Department application for questions.
 - Pass a basic educational skills test approved by the California Commission on Teacher Credentialing (CTC).
 - Pass the relevant California Subject Examination for Teachers (CSET), or obtain a waiver for the CSET by completing an approved subject matter preparation program at a CSU OR proof of registration for all CSET subtests or proof of pending Subject Matter Waiver Letter.
- After the Interview the following must be submitted:

- One official copy of the applicant's degree-granting institutional transcript (to the University);
- Two letters of recommendation; both letters must demonstrate suitable aptitude for teaching in public schools;
- Academic letters of recommendation are not acceptable.
- Letters should be dated within 3 years.
- The letters should be written by someone who has observed the applicant teaching or working with students in the age group of the credential sought.
- Both letters must be on official letterhead, signed, and dated. If letterhead is not available, include a business card.
- Pass a U.S. Constitution course or exam
- Earn a 2.67 cumulative grade point average or 2.75 in the last 60 semester units in a baccalaureate degree.
- 45 hours of Early Field Experience:
- Documented field experience of at least 45 hours in a K-12 classroom or classroom-like setting with groups of children: multiple subject, children 5-11 years of age.
- An acceptable public school experience includes work as a substitute teacher, para-educator, instructional aide, or classroom volunteer.
- Faith-based instruction is not acceptable.
- At least 15 hours must be in a public school classroom setting within the last two years.
- The remaining 30 of the 45 hours minimum must have been satisfied within the last three years.

- These hours may be completed in public or private school settings; in community-based venues, such as the YMCA, park recreations center, or in a structured summer camp, after-school, or other formally organized educational program.
- Submit the Early Field Experience Verification form. Use as many forms as needed to verify the total hours.
- This requirement may be partially fulfilled by enrollment in TED 3001, or TED 301 and TED 302.
- CTC Certificate of Clearance.
- Submit a TB clearance dated within two years.

Admission Process

Applicants are required to attend an admission interview. Applicants are notified of status by email from the CSSC after the interview. Applicants may receive a "Conditional Acceptance" pending receipt of documents.

Credential Requirements

The Single Subject Credential is the credential that authorizes the teaching of a specific subject in a departmentalized classroom. The Multiple Subject Credential is the basic credential that authorizes the teaching of all subjects in a self-contained, elementary school classroom.

Multiple Subject Credential Requirements (42 units)

Required Coursework

- TED 500 - Foundations of Multiple Subject Education *Units: 4*
- TED 501 - Introduction to Teaching Emergent Bilinguals *Units: 1*
- TED 502 - Inclusive Teaching Practices in a Multiple Subject Classroom *Units: 3*
- TED 503 - Equitable Teaching Practices in a Multiple Subject Classroom *Units: 3*
- TED 504 - Introduction to Teaching Special Populations *Units: 1*
- TED 507 - Technology in the Multiple Subject Classroom *Units: 2*
- TED 508 - Curriculum & Instruction: Reading *Units: 3*
- TED 509 - Curriculum & Instruction: Language Arts and Social Studies *Units: 4*
- TED 510 - Curriculum & Instruction: Mathematics in a Multiple Subject Classroom *Units: 3*
- TED 511 - Curriculum & Instruction: Visual & Performing Arts *Units: 2*
- TED 512 - Curriculum & Instruction: Science in the Multiple Subject Classroom *Units: 3*
- TED 513 - Curriculum & Instruction: Health and Physical Education *Units: 2*
- TED 570 - Multiple Subject Fieldwork Seminar I *Units: 1*
- TED 571 - Multiple Subject Fieldwork Seminar II *Units: 1*
- TED 580 - Multiple Subject Student Teaching I *Units: 4*
- TED 581 - Multiple Subject Student Teaching II *Units: 5*

Department Courses Listed by Course Type

Teacher Education Courses

Department of Teacher Education

Go to information for this department.

Courses

Education: Interdisciplinary - Graduate

- • EDUI 610 - The Web as an Interactive Educational Tool *Units: 4*
- • EDUI 620 - Theory and Design of E-Learning *Units: 4*
- • EDUI 630 - Math, Science and Technology *Units: 4*
- • EDUI 640 - Research in Educational Technology *Units: 4*
- • EDUI 650 - Mobile Application Development *Units: 4*
- • EDUI 660 - Digital Graphics *Units: 4*
- • EDUI 670 - Principles of Instructional Design *Units: 4*
- • EDUI 680 - Current Technologies *Units: 2*
- • EDUI 690 - Independent Study *Units: 1-3*
- • EDUI 691 - University Thesis *Units: 1-4*
- • EDUI 692 - Comprehensive Examination Preparation *Units: 2*
- • EDUI 693 - Master's Project *Units: 4*
- • EDUI 695 - Educational Technology Internship *Units: 4*
- • EDUI 697 - Issues in Education Interdisciplinary Studies *Units: 3*
- • EDUI 699 - Department Thesis *Units: 4*

Education: Online Teaching and Learning

- • OTL 601 - Introduction to Online Teaching and Learning *Units: 3*
- • OTL 602 - Instructional Design Models for Online Learning *Units: 3*
- • OTL 603 - Technology Tools for Online Instruction *Units: 3*
- • OTL 604 - Designing Curriculum for Online Instruction *Units: 3*
- • OTL 605 - Educational Planning and Development for Online Programs *Units: 3*
- • OTL 606 - Research in Online Teaching and Learning *Units: 3*
- • OTL 607 - History and Culture of Online Learning Communities *Units: 3*
- • OTL 672 - Content Development for Online Learning *Units: 3*
- • OTL 673 - Supervising and Evaluating Online Teaching *Units: 3*
- • OTL 674 - Current Issues in Online Learning *Units: 3*
- • OTL 680 - Building the Online Environment *Units: 3*
- • OTL 681 - Creating Digital Media for Online Instruction *Units: 3*
- • OTL 682 - Designing and Implementing User Interfaces for Online Instruction *Units: 3*
- • OTL 683 - Providing Interactivity in the Online Environment *Units: 3*
- • OTL 693 - Capstone Project *Units: 3*

Teacher Education

- • TED 301 - Introduction to Education *Units: 3*
- • TED 302 - Introduction to Teaching *Units: 3*
- • TED 398 - Internship *Units: 1-3*
- • TED 420 - Art Skills for Teachers *Units: 3*

- • TED 425 - Arts Integration for Teachers *Units: 3*
- • TED 470 - Early Childhood Education: Integrated Language & Literacy Development *Units: 3*
- • TED 471 - Early Childhood Education: Integrated Math and Science *Units: 3*
- • TED 472 - Early Childhood Education: Integrated Arts and Social Studies *Units: 3*
- • TED 473 - Early Childhood Education: Inclusive Practices *Units: 3*
- • TED 474 - Early Childhood Education: Professional Seminar and Practicum *Units: 4*
- • TED 490 - Independent Study *Units: 1-4*
- • TED 497 - Issues in Teacher Education *Units: 3*

Teacher Education: Graduate

- • TED 535 - History Social Studies III: Instructional Methods in a Single Subject Classroom *Units: 3*
- • TED 600 - Introduction to Graduate Studies *Units: 1*
- • TED 601 - Professional Research Seminar I *Units: 1*
- • TED 602 - Professional Research Seminar II *Units: 1*
- • TED 603 - Professional Research Seminar III *Units: 1*
- • TED 611 - Reading and Synthesizing Research in Education *Units: 3*
- • TED 612 - Understanding Design and Planning Research in Education *Units: 3*
- • TED 613 - Implementing and Analyzing Research in P-12 *Units: 3*
- • TED 620 - Advanced Studies in Mathematics Education *Units: 3*
- • TED 621 - Advanced Studies in Science Education *Units: 3*
- • TED 622 - Advanced Studies in Expository Reading and Writing *Units: 3*
- • TED 623 - Advanced Studies in Methods for English Language Learners *Units: 3*
- • TED 624 - Advanced Integrated Arts for All Teachers *Units: 3*
- • TED 625 - Teachers as Agents of Change *Units: 3*
- • TED 626 - Advanced Studies in Curriculum and Instruction *Units: 3*
- • TED 627 - Advanced Educational Psychology *Units: 3*
- • TED 630 - Advanced Language & Literacy Development in Early Childhood Education *Units: 4*
- • TED 631 - Advanced Integrated Math & Science in Early Childhood Education *Units: 3*
- • TED 632 - Advanced Integrated Arts & Social Studies in Early Childhood Education *Units: 3*
- • TED 633 - Advanced Special Education Practices in Early Childhood Education *Units: 3*
- • TED 634 - Professional Leadership in Early Childhood Education *Units: 2*
- • TED 635 - Field Based Practicum in Early Childhood Education *Units: 2*
- • TED 660 - Literacy Research and Methods *Units: 3*
- • TED 661 - Reading Comprehension Research and Methods *Units: 2*
- • TED 662 - Culture of Literacy: Focus on Diversity *Units: 2*
- • TED 663 - Literacy Assessment *Units: 3*
- • TED 664 - Literacy Intervention *Units: 3*
- • TED 670 - The Science of Reading Foundations *Units: 3*
- • TED 671 - Early Literacy Foundations *Units: 3*
- • TED 672 - Secondary Literacy Foundations *Units: 3*
- • TED 687 - Reading Research & Evaluation *Units: 3*
- • TED 688 - Research in Education *Units: 1*
- • TED 690 - Independent Study *Units: 1-3*
- • TED 691 - University Thesis *Units: 1-4*
- • TED 692 - Comprehensive Examination Preparation *Units: 2*
- • TED 693 - Master's Project *Units: 3*
- • TED 695 - Practicum *Units: 1*
- • TED 697 - Issues in Teacher Education *Units: 1-4*

- • TED 698 - Internship *Units: 1-3*
- • TED 699 - Department Thesis *Units: 1-4*

Teacher Education: Post-Baccalaureate

- • TED 500 - Foundations of Multiple Subject Education *Units: 4*
- • TED 501 - Introduction to Teaching Emergent Bilinguals *Units: 1*
- • TED 502 - Inclusive Teaching Practices in a Multiple Subject Classroom *Units: 3*
- • TED 503 - Equitable Teaching Practices in a Multiple Subject Classroom *Units: 3*
- • TED 504 - Introduction to Teaching Special Populations *Units: 1*
- • TED 505 - Teaching English Learners in the Multiple Subject Classroom *Units: 3*
- • TED 507 - Technology in the Multiple Subject Classroom *Units: 2*
- • TED 508 - Curriculum & Instruction: Reading *Units: 3*
- • TED 509 - Curriculum & Instruction: Language Arts and Social Studies *Units: 4*
- • TED 510 - Curriculum & Instruction: Mathematics in a Multiple Subject Classroom *Units: 3*
- • TED 511 - Curriculum & Instruction: Visual & Performing Arts *Units: 2*
- • TED 512 - Curriculum & Instruction: Science in the Multiple Subject Classroom *Units: 3*
- • TED 513 - Curriculum & Instruction: Health and Physical Education *Units: 2*
- • TED 520 - Foundations of Single Subject Education *Units: 4*
- • TED 521 - Content Literacy for All Learners *Units: 4*
- • TED 522 - Introduction to Teaching Emergent Bilinguals *Units: 1*
- • TED 523 - Inclusive Teaching Practices in a Single Subject Classroom A *Units: 3*
- • TED 524 - Inclusive Teaching Practices in a Single Subject Classroom B *Units: 3*
- • TED 525 - Teaching Special Education Students in a Single Subject Classroom *Units: 1*
- • TED 528 - Technology in the Single Subject Classroom *Units: 2*
- • TED 529 - Professional Responsibilities in Education *Units: 3*
- • TED 530 - English I: Instructional Methods in a Single Subject Classroom *Units: 3*
- • TED 531 - English II: Instructional Methods in a Single Subject Classroom *Units: 3*
- • TED 532 - English III: Instructional Methods in a Single Subject Classroom *Units: 3*
- • TED 533 - Historical Social Studies I: Instructional Methods in a Single Subject Classroom *Units: 3*
- • TED 534 - History Social Studies II: Instructional Methods in a Single Subject Classroom *Units: 3*
- • TED 536 - Science I: Instructional Methods in a Single Subject Classroom *Units: 3*
- • TED 537 - Science II: Instructional Methods in a Single Subject Classroom *Units: 3*
- • TED 538 - Science III: Instructional Methods in a Single Subject Classroom *Units: 3*
- • TED 539 - Mathematics I: Instructional Methods in a Single Subject Classroom *Units: 3*
- • TED 540 - Mathematics II: Instructional Methods in a Single Subject Classroom *Units: 3*
- • TED 541 - Mathematics III: Instructional Methods in a Single Subject Classroom *Units: 3*
- • TED 542 - Visual Arts I: Instructional Methods in a Single Subject Classroom *Units: 3*
- • TED 543 - Visual Arts II: Instructional Methods in a Single Subject Classroom *Units: 3*
- • TED 544 - Visual Arts III: Instructional Methods in a Single Subject Classroom *Units: 3*
- • TED 545 - Music I: Instructional Methods in a Single Subject Classroom *Units: 3*
- • TED 546 - Music II: Instructional Methods in a Single Subject Classroom *Units: 3*
- • TED 547 - Music III: Instructional Methods in a Single Subject Classroom *Units: 3*
- • TED 548 - Physical Education I- Instructional Methods in a Single Subject Classroom *Units: 3*
- • TED 549 - Physical Education II- Instructional Methods in a Single Subject Classroom *Units: 3*
- • TED 550 - Physical Education III - Instructional Methods in a Single Subject Classroom *Units: 3*
- • TED 551 - Spanish I- Instructional Methods in a Single Subject Classroom *Units: 3*
- • TED 552 - Spanish II: Instructional Methods in a Single Subject Classroom *Units: 3*
- • TED 553 - Spanish III - Instructional Methods in a Single Subject Classroom *Units: 3*

- • TED 554 - French I - Instructional Methods in a Single Subject Classroom *Units: 3*
- • TED 555 - French II - Instructional Methods in a Single Subject Classroom *Units: 3*
- • TED 556 - French III - Instructional Methods in a Single Subject Classroom *Units: 3*
- • TED 557 - Hindi I: Instructional Methods in a Single Subject Classroom *Units: 3*
- • TED 558 - Hindi II: Instructional Methods in a Single Subject Classroom *Units: 3*
- • TED 559 - Hindi III: Instructional Methods in a Single Subject Classroom *Units: 3*
- • TED 560 - Chinese I: Instructional Methods in a Single Subject Classroom *Units: 3*
- • TED 561 - Chinese II: Instructional Methods in a Single Subject Classroom *Units: 3*
- • TED 562 - Chinese III: Instructional Methods in a Single Subject Classroom *Units: 3*
- • TED 570 - Multiple Subject Fieldwork Seminar I *Units: 1*
- • TED 571 - Multiple Subject Fieldwork Seminar II *Units: 1*
- • TED 575 - Single Subject Fieldwork Seminar I *Units: 1*
- • TED 576 - Single Subject Fieldwork Seminar II *Units: 1*
- • TED 580 - Multiple Subject Student Teaching I *Units: 4*
- • TED 581 - Multiple Subject Student Teaching II *Units: 5*
- • TED 582 - Multiple Subject Intern Teaching I *Units: 5*
- • TED 583 - Multiple Subject Intern Teaching II *Units: 5*
- • TED 585 - Single Subject Field Placement I *Units: 5*
- • TED 586 - Single Subject Field Placement II *Units: 5*
- • TED 587 - Single Subject Intern Teaching I *Units: 5*
- • TED 588 - Single Subject Intern Teaching II *Units: 5*

Single Subject Credential Program

Single Subject Credential Requirements (42 units)

Required Courses

Complete 42 units of the following coursework:

- TED 521 - Content Literacy for All Learners *Units: 4*
- TED 520 - Foundations of Single Subject Education *Units: 4*
- TED 522 - Introduction to Teaching Emergent Bilinguals *Units: 1*
- TED 523 - Inclusive Teaching Practices in a Single Subject Classroom A *Units: 3*
- TED 524 - Inclusive Teaching Practices in a Single Subject Classroom B *Units: 3*
- TED 525 - Teaching Special Education Students in a Single Subject Classroom *Units: 1*
- TED 528 - Technology in the Single Subject Classroom *Units: 2*
- TED 529 - Professional Responsibilities in Education *Units: 3*
- TED 575 - Single Subject Fieldwork Seminar I *Units: 1*
- TED 576 - Single Subject Fieldwork Seminar II *Units: 1*
- TED 585 - Single Subject Field Placement I *Units: 5*
- TED 586 - Single Subject Field Placement II *Units: 5*
- Plus candidates are required to take three (3) Instructional Methods courses as well. These courses correspond to the candidate's subject matter credential. **Choose one (1) of the 3-course sequences in your area of subject matter competency for an additional 9 units:**

- TED 530 - English I: Instructional Methods in a Single Subject Classroom *Units: 3*
- TED 531 - English II: Instructional Methods in a Single Subject Classroom *Units: 3*
- TED 532 - English III: Instructional Methods in a Single Subject Classroom *Units: 3*

- TED 533 - Historical Social Studies I: Instructional Methods in a Single Subject Classroom *Units: 3*
- TED 534 - History Social Studies II: Instructional Methods in a Single Subject Classroom *Units: 3*
- TED 535 - History Social Studies III: Instructional Methods in a Single Subject Classroom *Units: 3*

- TED 536 - Science I: Instructional Methods in a Single Subject Classroom *Units: 3*
- TED 537 - Science II: Instructional Methods in a Single Subject Classroom *Units: 3*
- TED 538 - Science III: Instructional Methods in a Single Subject Classroom *Units: 3*

- TED 539 - Mathematics I: Instructional Methods in a Single Subject Classroom *Units: 3*
- TED 540 - Mathematics II: Instructional Methods in a Single Subject Classroom *Units: 3*
- TED 541 - Mathematics III: Instructional Methods in a Single Subject Classroom *Units: 3*

- TED 542 - Visual Arts I: Instructional Methods in a Single Subject Classroom *Units: 3*
- TED 543 - Visual Arts II: Instructional Methods in a Single Subject Classroom *Units: 3*
- TED 544 - Visual Arts III: Instructional Methods in a Single Subject Classroom *Units: 3*

- TED 545 - Music I: Instructional Methods in a Single Subject Classroom *Units: 3*
- TED 546 - Music II: Instructional Methods in a Single Subject Classroom *Units: 3*
- TED 547 - Music III: Instructional Methods in a Single Subject Classroom *Units: 3*

- TED 548 - Physical Education I- Instructional Methods in a Single Subject Classroom *Units: 3*
- TED 549 - Physical Education II- Instructional Methods in a Single Subject Classroom *Units: 3*
- TED 550 - Physical Education III - Instructional Methods in a Single Subject Classroom *Units: 3*

- TED 551 - Spanish I- Instructional Methods in a Single Subject Classroom *Units: 3*
- TED 552 - Spanish II: Instructional Methods in a Single Subject Classroom *Units: 3*
- TED 553 - Spanish III - Instructional Methods in a Single Subject Classroom *Units: 3*
- TED 554 - French I - Instructional Methods in a Single Subject Classroom *Units: 3*
- TED 555 - French II - Instructional Methods in a Single Subject Classroom *Units: 3*
- TED 556 - French III - Instructional Methods in a Single Subject Classroom *Units: 3*
- TED 557 - Hindi I: Instructional Methods in a Single Subject Classroom *Units: 3*
- TED 558 - Hindi II: Instructional Methods in a Single Subject Classroom *Units: 3*
- TED 559 - Hindi III: Instructional Methods in a Single Subject Classroom *Units: 3*
- TED 560 - Chinese I: Instructional Methods in a Single Subject Classroom *Units: 3*
- TED 561 - Chinese II: Instructional Methods in a Single Subject Classroom *Units: 3*
- TED 562 - Chinese III: Instructional Methods in a Single Subject Classroom *Units: 3*

Other Graduate & Post-Baccalaureate Degree Requirements

In addition to departmental requirements, every student must also satisfy the University requirements for graduation as described throughout this catalog. These include the 70% unit residence requirement; the five-year rule on currency of subject matter; the minimum number of units in 600-level courses; the "C" minimum grade for each graduate course; the 3.00 cumulative grade point average; and the University Writing Skills Requirement.

Note: For information on meeting the University Writing Skills Requirement, see the Testing Office website at www.csueastbay.edu/testing or call (510) 885-3661.

Department Courses Listed by Course Type

Teacher Education Courses

Department of Teacher Education

Go to information for this department.

Courses

Education: Interdisciplinary - Graduate

- • EDUI 610 - The Web as an Interactive Educational Tool *Units: 4*
- • EDUI 620 - Theory and Design of E-Learning *Units: 4*
- • EDUI 630 - Math, Science and Technology *Units: 4*
- • EDUI 640 - Research in Educational Technology *Units: 4*
- • EDUI 650 - Mobile Application Development *Units: 4*
- • EDUI 660 - Digital Graphics *Units: 4*
- • EDUI 670 - Principles of Instructional Design *Units: 4*
- • EDUI 680 - Current Technologies *Units: 2*
- • EDUI 690 - Independent Study *Units: 1-3*
- • EDUI 691 - University Thesis *Units: 1-4*
- • EDUI 692 - Comprehensive Examination Preparation *Units: 2*
- • EDUI 693 - Master's Project *Units: 4*
- • EDUI 695 - Educational Technology Internship *Units: 4*
- • EDUI 697 - Issues in Education Interdisciplinary Studies *Units: 3*
- • EDUI 699 - Department Thesis *Units: 4*

Education: Online Teaching and Learning

- • OTL 601 - Introduction to Online Teaching and Learning *Units: 3*
- • OTL 602 - Instructional Design Models for Online Learning *Units: 3*
- • OTL 603 - Technology Tools for Online Instruction *Units: 3*
- • OTL 604 - Designing Curriculum for Online Instruction *Units: 3*
- • OTL 605 - Educational Planning and Development for Online Programs *Units: 3*
- • OTL 606 - Research in Online Teaching and Learning *Units: 3*
- • OTL 607 - History and Culture of Online Learning Communities *Units: 3*
- • OTL 672 - Content Development for Online Learning *Units: 3*
- • OTL 673 - Supervising and Evaluating Online Teaching *Units: 3*
- • OTL 674 - Current Issues in Online Learning *Units: 3*
- • OTL 680 - Building the Online Environment *Units: 3*
- • OTL 681 - Creating Digital Media for Online Instruction *Units: 3*
- • OTL 682 - Designing and Implementing User Interfaces for Online Instruction *Units: 3*
- • OTL 683 - Providing Interactivity in the Online Environment *Units: 3*
- • OTL 693 - Capstone Project *Units: 3*

Teacher Education

- • TED 301 - Introduction to Education *Units: 3*
- • TED 302 - Introduction to Teaching *Units: 3*
- • TED 398 - Internship *Units: 1-3*
- • TED 420 - Art Skills for Teachers *Units: 3*
- • TED 425 - Arts Integration for Teachers *Units: 3*
- • TED 470 - Early Childhood Education: Integrated Language & Literacy Development *Units: 3*
- • TED 471 - Early Childhood Education: Integrated Math and Science *Units: 3*
- • TED 472 - Early Childhood Education: Integrated Arts and Social Studies *Units: 3*
- • TED 473 - Early Childhood Education: Inclusive Practices *Units: 3*
- • TED 474 - Early Childhood Education: Professional Seminar and Practicum *Units: 4*
- • TED 490 - Independent Study *Units: 1-4*
- • TED 497 - Issues in Teacher Education *Units: 3*

Teacher Education: Graduate

- • TED 535 - History Social Studies III: Instructional Methods in a Single Subject Classroom *Units: 3*

- • TED 600 - Introduction to Graduate Studies *Units: 1*
- • TED 601 - Professional Research Seminar I *Units: 1*
- • TED 602 - Professional Research Seminar II *Units: 1*
- • TED 603 - Professional Research Seminar III *Units: 1*
- • TED 611 - Reading and Synthesizing Research in Education *Units: 3*
- • TED 612 - Understanding Design and Planning Research in Education *Units: 3*
- • TED 613 - Implementing and Analyzing Research in P-12 *Units: 3*
- • TED 620 - Advanced Studies in Mathematics Education *Units: 3*
- • TED 621 - Advanced Studies in Science Education *Units: 3*
- • TED 622 - Advanced Studies in Expository Reading and Writing *Units: 3*
- • TED 623 - Advanced Studies in Methods for English Language Learners *Units: 3*
- • TED 624 - Advanced Integrated Arts for All Teachers *Units: 3*
- • TED 625 - Teachers as Agents of Change *Units: 3*
- • TED 626 - Advanced Studies in Curriculum and Instruction *Units: 3*
- • TED 627 - Advanced Educational Psychology *Units: 3*
- • TED 630 - Advanced Language & Literacy Development in Early Childhood Education *Units: 4*
- • TED 631 - Advanced Integrated Math & Science in Early Childhood Education *Units: 3*
- • TED 632 - Advanced Integrated Arts & Social Studies in Early Childhood Education *Units: 3*
- • TED 633 - Advanced Special Education Practices in Early Childhood Education *Units: 3*
- • TED 634 - Professional Leadership in Early Childhood Education *Units: 2*
- • TED 635 - Field Based Practicum in Early Childhood Education *Units: 2*
- • TED 660 - Literacy Research and Methods *Units: 3*
- • TED 661 - Reading Comprehension Research and Methods *Units: 2*
- • TED 662 - Culture of Literacy: Focus on Diversity *Units: 2*
- • TED 663 - Literacy Assessment *Units: 3*
- • TED 664 - Literacy Intervention *Units: 3*
- • TED 670 - The Science of Reading Foundations *Units: 3*
- • TED 671 - Early Literacy Foundations *Units: 3*
- • TED 672 - Secondary Literacy Foundations *Units: 3*
- • TED 687 - Reading Research & Evaluation *Units: 3*
- • TED 688 - Research in Education *Units: 1*
- • TED 690 - Independent Study *Units: 1-3*
- • TED 691 - University Thesis *Units: 1-4*
- • TED 692 - Comprehensive Examination Preparation *Units: 2*
- • TED 693 - Master's Project *Units: 3*
- • TED 695 - Practicum *Units: 1*
- • TED 697 - Issues in Teacher Education *Units: 1-4*
- • TED 698 - Internship *Units: 1-3*
- • TED 699 - Department Thesis *Units: 1-4*

Teacher Education: Post-Baccalaureate

- • TED 500 - Foundations of Multiple Subject Education *Units: 4*
- • TED 501 - Introduction to Teaching Emergent Bilinguals *Units: 1*
- • TED 502 - Inclusive Teaching Practices in a Multiple Subject Classroom *Units: 3*
- • TED 503 - Equitable Teaching Practices in a Multiple Subject Classroom *Units: 3*
- • TED 504 - Introduction to Teaching Special Populations *Units: 1*
- • TED 505 - Teaching English Learners in the Multiple Subject Classroom *Units: 3*
- • TED 507 - Technology in the Multiple Subject Classroom *Units: 2*

- • TED 508 - Curriculum & Instruction: Reading *Units: 3*
- • TED 509 - Curriculum & Instruction: Language Arts and Social Studies *Units: 4*
- • TED 510 - Curriculum & Instruction: Mathematics in a Multiple Subject Classroom *Units: 3*
- • TED 511 - Curriculum & Instruction: Visual & Performing Arts *Units: 2*
- • TED 512 - Curriculum & Instruction: Science in the Multiple Subject Classroom *Units: 3*
- • TED 513 - Curriculum & Instruction: Health and Physical Education *Units: 2*
- • TED 520 - Foundations of Single Subject Education *Units: 4*
- • TED 521 - Content Literacy for All Learners *Units: 4*
- • TED 522 - Introduction to Teaching Emergent Bilinguals *Units: 1*
- • TED 523 - Inclusive Teaching Practices in a Single Subject Classroom A *Units: 3*
- • TED 524 - Inclusive Teaching Practices in a Single Subject Classroom B *Units: 3*
- • TED 525 - Teaching Special Education Students in a Single Subject Classroom *Units: 1*
- • TED 528 - Technology in the Single Subject Classroom *Units: 2*
- • TED 529 - Professional Responsibilities in Education *Units: 3*
- • TED 530 - English I: Instructional Methods in a Single Subject Classroom *Units: 3*
- • TED 531 - English II: Instructional Methods in a Single Subject Classroom *Units: 3*
- • TED 532 - English III: Instructional Methods in a Single Subject Classroom *Units: 3*
- • TED 533 - Historical Social Studies I: Instructional Methods in a Single Subject Classroom *Units: 3*
- • TED 534 - History Social Studies II: Instructional Methods in a Single Subject Classroom *Units: 3*
- • TED 536 - Science I: Instructional Methods in a Single Subject Classroom *Units: 3*
- • TED 537 - Science II: Instructional Methods in a Single Subject Classroom *Units: 3*
- • TED 538 - Science III: Instructional Methods in a Single Subject Classroom *Units: 3*
- • TED 539 - Mathematics I: Instructional Methods in a Single Subject Classroom *Units: 3*
- • TED 540 - Mathematics II: Instructional Methods in a Single Subject Classroom *Units: 3*
- • TED 541 - Mathematics III: Instructional Methods in a Single Subject Classroom *Units: 3*
- • TED 542 - Visual Arts I: Instructional Methods in a Single Subject Classroom *Units: 3*
- • TED 543 - Visual Arts II: Instructional Methods in a Single Subject Classroom *Units: 3*
- • TED 544 - Visual Arts III: Instructional Methods in a Single Subject Classroom *Units: 3*
- • TED 545 - Music I: Instructional Methods in a Single Subject Classroom *Units: 3*
- • TED 546 - Music II: Instructional Methods in a Single Subject Classroom *Units: 3*
- • TED 547 - Music III: Instructional Methods in a Single Subject Classroom *Units: 3*
- • TED 548 - Physical Education I- Instructional Methods in a Single Subject Classroom *Units: 3*
- • TED 549 - Physical Education II- Instructional Methods in a Single Subject Classroom *Units: 3*
- • TED 550 - Physical Education III - Instructional Methods in a Single Subject Classroom *Units: 3*
- • TED 551 - Spanish I- Instructional Methods in a Single Subject Classroom *Units: 3*
- • TED 552 - Spanish II: Instructional Methods in a Single Subject Classroom *Units: 3*
- • TED 553 - Spanish III - Instructional Methods in a Single Subject Classroom *Units: 3*
- • TED 554 - French I - Instructional Methods in a Single Subject Classroom *Units: 3*
- • TED 555 - French II - Instructional Methods in a Single Subject Classroom *Units: 3*
- • TED 556 - French III - Instructional Methods in a Single Subject Classroom *Units: 3*
- • TED 557 - Hindi I: Instructional Methods in a Single Subject Classroom *Units: 3*
- • TED 558 - Hindi II: Instructional Methods in a Single Subject Classroom *Units: 3*
- • TED 559 - Hindi III: Instructional Methods in a Single Subject Classroom *Units: 3*
- • TED 560 - Chinese I: Instructional Methods in a Single Subject Classroom *Units: 3*
- • TED 561 - Chinese II: Instructional Methods in a Single Subject Classroom *Units: 3*
- • TED 562 - Chinese III: Instructional Methods in a Single Subject Classroom *Units: 3*
- • TED 570 - Multiple Subject Fieldwork Seminar I *Units: 1*
- • TED 571 - Multiple Subject Fieldwork Seminar II *Units: 1*

- • TED 575 - Single Subject Fieldwork Seminar I *Units: 1*
- • TED 576 - Single Subject Fieldwork Seminar II *Units: 1*
- • TED 580 - Multiple Subject Student Teaching I *Units: 4*
- • TED 581 - Multiple Subject Student Teaching II *Units: 5*
- • TED 582 - Multiple Subject Intern Teaching I *Units: 5*
- • TED 583 - Multiple Subject Intern Teaching II *Units: 5*
- • TED 585 - Single Subject Field Placement I *Units: 5*
- • TED 586 - Single Subject Field Placement II *Units: 5*
- • TED 587 - Single Subject Intern Teaching I *Units: 5*
- • TED 588 - Single Subject Intern Teaching II *Units: 5*

Master

Early Childhood Education, M.S.

Early Childhood Education, M.S. Program

Program Description

The MS in Early Childhood Education prepares individuals to teach and work with all students ranging in age from infancy through eight years (i.e., grade three). It includes preparation to teach all relevant subject matter. The purpose of this master's degree is to prepare teachers to understand and deliver strong, vibrant, and relevant instruction and leadership in Early Childhood Education settings.

CSUEB faculty work with local agencies, community colleges, and county personnel to insure that students receive advanced instruction in curriculum and pedagogy for this age group, analyze and understand research and practice, and promote leadership and collaboration with families. The cohort model is used in this two-year program. In other words, students take all classes together and develop strong personal and professional relationships with one another. Students in the program come from a wide variety of educational programs, including private, public, and home school preschool programs, Head Start, TK-3rd grade private and public schools. Thus, they experience a wide range of perspectives in the field of Early Childhood Education. Students also enjoy the hybrid format of most classes, a 6:00 p.m. start time for classes, and weekend course offerings each semester.

The MS in Early Childhood Education is specifically designed for the working practitioner to gain professional knowledge about curriculum and leadership for children ages birth to eight years old. This degree emphasizes developmentally and culturally appropriate practices, "hands-on" experiences, evidenced-based instruction, working with families, and innovative ways to build leadership and professionalism. Education of the whole child, including cognitive, social, and emotional aspects are covered throughout the program's curriculum. The program is designed for preschool and T-K through third grade teachers. National, state, and local documents are evidenced in the coursework. The four-semester program includes a field-based practicum and accompanying seminar.

Career Opportunities

Students who complete this degree may secure positions as Preschool Directors, Program Supervisors, Curriculum Specialists in Early Childhood, Community College Instructors, classroom teachers,

employees for Head Start, State Preschool, Teachers on Special Assignment (TSA) and researchers for private institutions.

Admission Requirements

Students must demonstrate an appropriate background when applying for this degree. Background can be shown by successful completion of an undergraduate degree in Human Development, Psychology, or other relevant degree to the field of Early Childhood. Students possessing a Multiple Subject Credential or a degree in Elementary Education are also encouraged to apply. Students who have a Bachelor's degree, but not in the Social Sciences, and have successfully completed at least 12 units in Early Childhood and/or have worked successfully in the field for at least 5 years are also encouraged to apply.

- Candidates must hold a baccalaureate degree from an accredited institution.
- Candidates must have earned at least a 3.0 Grade Point Average (GPA) in all upper division/post baccalaureate coursework.
- If candidates have a baccalaureate degree from out of the country, they must have their transcripts evaluated by the International Graduate Student Admissions Office.
- Candidates, upon entry or graduation, must have met the University Writing Skills Requirements (UWSR). For information about meeting the USWR, see the Testing Office website at www.csueastbay/testing or call 510.885.3661.

Progress Towards the Degree

- Completed at least 30 units of approved graduate work subject to the following conditions:
- All units must have been earned within the past five (5) years immediately preceding completion of the requirements for the degree.
- No fewer than 70% (or 21 semester units) must have been completed in residence as a regularly matriculated student in the graduate program at Cal State East Bay.
- No more than nine (9) semester units of approved courses may be transferred from another institution, taken through approved extension courses (including Open University), or taken as an "Unclassified Post-Baccalaureate" student.
- At least 15 semester units must have been in courses numbered in the 600-series or the equivalent graduate level.
- Satisfied the University Writing Skills Requirement.
- Earned at least a 3.0 GPA in all units satisfying the requirements of the degree program.
- Completed TED 693 Master's Project within five (5) years of admission to the program. A project provides evidence of originality, independent thinking, and appropriate form and organization. Students must describe their project in a written abstract that addresses the project's significance, objectives, methodology, and conclusions.

Student Standing

A student must maintain an overall GPA of 3.0 or higher in all courses taken whether the courses are taken at Cal State East Bay or elsewhere. This means that a student must receive a grade of B- or better in all classes taken during the graduate program. Students may repeat a class only once and the grade received the second time will be the grade recorded on the student's record. This same rule applies to the research sequence of classes. If a student does not receive a grade of B- or better the second time the class is repeated in the research sequence and the Master's Project (TED 611, 612, 693), the student may be dismissed from the program. A student whose GPA falls below 3.0 will be placed on probationary

status, will be subject to disqualification from the program, and may be recommended for dismissal from the university. The department also requires that the Graduate Coordinator approve in advance a "CR/NC" grade in any course applied to a master's and/or certificate program.

Program Learning Outcomes

- Identify, describe and evaluate a variety of factors and contemporary issues that influence curricula in preschool through third grade.
- Demonstrate appropriate content knowledge, pedagogy and skills necessary to help all students learn from birth through third grade.
- Develop leadership skills to become an advocate and mentor for diverse families and student learning.
- Utilize a variety of bibliographic tools to write a comprehensive review of the literature for a topic of professional interest in Early Childhood Education.
- Complete an action research project investigating a topic as it relates to the field of Early Childhood Education.

Early Childhood Education Degree Requirements (30 units)

Required Courses

The following 27 units of core coursework is required:

- TED 600 - Introduction to Graduate Studies *Units: 1*
- TED 601 - Professional Research Seminar I *Units: 1*
- TED 602 - Professional Research Seminar II *Units: 1*
- TED 603 - Professional Research Seminar III *Units: 1*
- TED 611 - Reading and Synthesizing Research in Education *Units: 3*
- TED 612 - Understanding Design and Planning Research in Education *Units: 3*
- TED 630 - Advanced Language & Literacy Development in Early Childhood Education *Units: 4*
- TED 631 - Advanced Integrated Math & Science in Early Childhood Education *Units: 3*
- TED 632 - Advanced Integrated Arts & Social Studies in Early Childhood Education *Units: 3*
- TED 633 - Advanced Special Education Practices in Early Childhood Education *Units: 3*
- TED 634 - Professional Leadership in Early Childhood Education *Units: 2*
- TED 635 - Field Based Practicum in Early Childhood Education *Units: 2*

Capstone Requirement

The following capstone project is required to complete the program requirements:

- TED 693 - Master's Project *Units: 3 (See Errata chapter for additional capstone information.)*

Other Graduate & Post-Baccalaureate Degree Requirements

In addition to departmental requirements, every student must also satisfy the University requirements for graduation as described throughout this catalog. These include the 70% unit residence requirement; the five-year rule on currency of subject matter; the minimum number of units in 600-level courses; the "C" minimum grade for each graduate course; the 3.00 cumulative grade point average; and the University Writing Skills Requirement.

Note: For information on meeting the University Writing Skills Requirement, see the Testing Office website at www.csueastbay.edu/testing or call (510) 885-3661.

Department Courses Listed by Course Type

Teacher Education Courses

Department of Teacher Education

Go to information for this department.

Courses

Education: Interdisciplinary - Graduate

- • EDUI 610 - The Web as an Interactive Educational Tool *Units: 4*
- • EDUI 620 - Theory and Design of E-Learning *Units: 4*
- • EDUI 630 - Math, Science and Technology *Units: 4*
- • EDUI 640 - Research in Educational Technology *Units: 4*
- • EDUI 650 - Mobile Application Development *Units: 4*
- • EDUI 660 - Digital Graphics *Units: 4*
- • EDUI 670 - Principles of Instructional Design *Units: 4*
- • EDUI 680 - Current Technologies *Units: 2*
- • EDUI 690 - Independent Study *Units: 1-3*
- • EDUI 691 - University Thesis *Units: 1-4*
- • EDUI 692 - Comprehensive Examination Preparation *Units: 2*
- • EDUI 693 - Master's Project *Units: 4*
- • EDUI 695 - Educational Technology Internship *Units: 4*
- • EDUI 697 - Issues in Education Interdisciplinary Studies *Units: 3*
- • EDUI 699 - Department Thesis *Units: 4*

Education: Online Teaching and Learning

- • OTL 601 - Introduction to Online Teaching and Learning *Units: 3*
- • OTL 602 - Instructional Design Models for Online Learning *Units: 3*
- • OTL 603 - Technology Tools for Online Instruction *Units: 3*
- • OTL 604 - Designing Curriculum for Online Instruction *Units: 3*
- • OTL 605 - Educational Planning and Development for Online Programs *Units: 3*
- • OTL 606 - Research in Online Teaching and Learning *Units: 3*
- • OTL 607 - History and Culture of Online Learning Communities *Units: 3*
- • OTL 672 - Content Development for Online Learning *Units: 3*
- • OTL 673 - Supervising and Evaluating Online Teaching *Units: 3*
- • OTL 674 - Current Issues in Online Learning *Units: 3*

- • OTL 680 - Building the Online Environment *Units: 3*
- • OTL 681 - Creating Digital Media for Online Instruction *Units: 3*
- • OTL 682 - Designing and Implementing User Interfaces for Online Instruction *Units: 3*
- • OTL 683 - Providing Interactivity in the Online Environment *Units: 3*
- • OTL 693 - Capstone Project *Units: 3*

Teacher Education

- • TED 301 - Introduction to Education *Units: 3*
- • TED 302 - Introduction to Teaching *Units: 3*
- • TED 398 - Internship *Units: 1-3*
- • TED 420 - Art Skills for Teachers *Units: 3*
- • TED 425 - Arts Integration for Teachers *Units: 3*
- • TED 470 - Early Childhood Education: Integrated Language & Literacy Development *Units: 3*
- • TED 471 - Early Childhood Education: Integrated Math and Science *Units: 3*
- • TED 472 - Early Childhood Education: Integrated Arts and Social Studies *Units: 3*
- • TED 473 - Early Childhood Education: Inclusive Practices *Units: 3*
- • TED 474 - Early Childhood Education: Professional Seminar and Practicum *Units: 4*
- • TED 490 - Independent Study *Units: 1-4*
- • TED 497 - Issues in Teacher Education *Units: 3*

Teacher Education: Graduate

- • TED 535 - History Social Studies III: Instructional Methods in a Single Subject Classroom *Units: 3*
- • TED 600 - Introduction to Graduate Studies *Units: 1*
- • TED 601 - Professional Research Seminar I *Units: 1*
- • TED 602 - Professional Research Seminar II *Units: 1*
- • TED 603 - Professional Research Seminar III *Units: 1*
- • TED 611 - Reading and Synthesizing Research in Education *Units: 3*
- • TED 612 - Understanding Design and Planning Research in Education *Units: 3*
- • TED 613 - Implementing and Analyzing Research in P-12 *Units: 3*
- • TED 620 - Advanced Studies in Mathematics Education *Units: 3*
- • TED 621 - Advanced Studies in Science Education *Units: 3*
- • TED 622 - Advanced Studies in Expository Reading and Writing *Units: 3*
- • TED 623 - Advanced Studies in Methods for English Language Learners *Units: 3*
- • TED 624 - Advanced Integrated Arts for All Teachers *Units: 3*
- • TED 625 - Teachers as Agents of Change *Units: 3*
- • TED 626 - Advanced Studies in Curriculum and Instruction *Units: 3*
- • TED 627 - Advanced Educational Psychology *Units: 3*
- • TED 630 - Advanced Language & Literacy Development in Early Childhood Education *Units: 4*
- • TED 631 - Advanced Integrated Math & Science in Early Childhood Education *Units: 3*
- • TED 632 - Advanced Integrated Arts & Social Studies in Early Childhood Education *Units: 3*
- • TED 633 - Advanced Special Education Practices in Early Childhood Education *Units: 3*
- • TED 634 - Professional Leadership in Early Childhood Education *Units: 2*
- • TED 635 - Field Based Practicum in Early Childhood Education *Units: 2*
- • TED 660 - Literacy Research and Methods *Units: 3*
- • TED 661 - Reading Comprehension Research and Methods *Units: 2*
- • TED 662 - Culture of Literacy: Focus on Diversity *Units: 2*
- • TED 663 - Literacy Assessment *Units: 3*
- • TED 664 - Literacy Intervention *Units: 3*

- • TED 670 - The Science of Reading Foundations *Units: 3*
- • TED 671 - Early Literacy Foundations *Units: 3*
- • TED 672 - Secondary Literacy Foundations *Units: 3*
- • TED 687 - Reading Research & Evaluation *Units: 3*
- • TED 688 - Research in Education *Units: 1*
- • TED 690 - Independent Study *Units: 1-3*
- • TED 691 - University Thesis *Units: 1-4*
- • TED 692 - Comprehensive Examination Preparation *Units: 2*
- • TED 693 - Master's Project *Units: 3*
- • TED 695 - Practicum *Units: 1*
- • TED 697 - Issues in Teacher Education *Units: 1-4*
- • TED 698 - Internship *Units: 1-3*
- • TED 699 - Department Thesis *Units: 1-4*

Teacher Education: Post-Baccalaureate

- • TED 500 - Foundations of Multiple Subject Education *Units: 4*
- • TED 501 - Introduction to Teaching Emergent Bilinguals *Units: 1*
- • TED 502 - Inclusive Teaching Practices in a Multiple Subject Classroom *Units: 3*
- • TED 503 - Equitable Teaching Practices in a Multiple Subject Classroom *Units: 3*
- • TED 504 - Introduction to Teaching Special Populations *Units: 1*
- • TED 505 - Teaching English Learners in the Multiple Subject Classroom *Units: 3*
- • TED 507 - Technology in the Multiple Subject Classroom *Units: 2*
- • TED 508 - Curriculum & Instruction: Reading *Units: 3*
- • TED 509 - Curriculum & Instruction: Language Arts and Social Studies *Units: 4*
- • TED 510 - Curriculum & Instruction: Mathematics in a Multiple Subject Classroom *Units: 3*
- • TED 511 - Curriculum & Instruction: Visual & Performing Arts *Units: 2*
- • TED 512 - Curriculum & Instruction: Science in the Multiple Subject Classroom *Units: 3*
- • TED 513 - Curriculum & Instruction: Health and Physical Education *Units: 2*
- • TED 520 - Foundations of Single Subject Education *Units: 4*
- • TED 521 - Content Literacy for All Learners *Units: 4*
- • TED 522 - Introduction to Teaching Emergent Bilinguals *Units: 1*
- • TED 523 - Inclusive Teaching Practices in a Single Subject Classroom A *Units: 3*
- • TED 524 - Inclusive Teaching Practices in a Single Subject Classroom B *Units: 3*
- • TED 525 - Teaching Special Education Students in a Single Subject Classroom *Units: 1*
- • TED 528 - Technology in the Single Subject Classroom *Units: 2*
- • TED 529 - Professional Responsibilities in Education *Units: 3*
- • TED 530 - English I: Instructional Methods in a Single Subject Classroom *Units: 3*
- • TED 531 - English II: Instructional Methods in a Single Subject Classroom *Units: 3*
- • TED 532 - English III: Instructional Methods in a Single Subject Classroom *Units: 3*
- • TED 533 - Historical Social Studies I: Instructional Methods in a Single Subject Classroom *Units: 3*
- • TED 534 - History Social Studies II: Instructional Methods in a Single Subject Classroom *Units: 3*
- • TED 536 - Science I: Instructional Methods in a Single Subject Classroom *Units: 3*
- • TED 537 - Science II: Instructional Methods in a Single Subject Classroom *Units: 3*
- • TED 538 - Science III: Instructional Methods in a Single Subject Classroom *Units: 3*
- • TED 539 - Mathematics I: Instructional Methods in a Single Subject Classroom *Units: 3*
- • TED 540 - Mathematics II: Instructional Methods in a Single Subject Classroom *Units: 3*
- • TED 541 - Mathematics III: Instructional Methods in a Single Subject Classroom *Units: 3*
- • TED 542 - Visual Arts I: Instructional Methods in a Single Subject Classroom *Units: 3*

- • TED 543 - Visual Arts II: Instructional Methods in a Single Subject Classroom *Units: 3*
- • TED 544 - Visual Arts III: Instructional Methods in a Single Subject Classroom *Units: 3*
- • TED 545 - Music I: Instructional Methods in a Single Subject Classroom *Units: 3*
- • TED 546 - Music II: Instructional Methods in a Single Subject Classroom *Units: 3*
- • TED 547 - Music III: Instructional Methods in a Single Subject Classroom *Units: 3*
- • TED 548 - Physical Education I- Instructional Methods in a Single Subject Classroom *Units: 3*
- • TED 549 - Physical Education II- Instructional Methods in a Single Subject Classroom *Units: 3*
- • TED 550 - Physical Education III - Instructional Methods in a Single Subject Classroom *Units: 3*
- • TED 551 - Spanish I- Instructional Methods in a Single Subject Classroom *Units: 3*
- • TED 552 - Spanish II: Instructional Methods in a Single Subject Classroom *Units: 3*
- • TED 553 - Spanish III - Instructional Methods in a Single Subject Classroom *Units: 3*
- • TED 554 - French I - Instructional Methods in a Single Subject Classroom *Units: 3*
- • TED 555 - French II - Instructional Methods in a Single Subject Classroom *Units: 3*
- • TED 556 - French III - Instructional Methods in a Single Subject Classroom *Units: 3*
- • TED 557 - Hindi I: Instructional Methods in a Single Subject Classroom *Units: 3*
- • TED 558 - Hindi II: Instructional Methods in a Single Subject Classroom *Units: 3*
- • TED 559 - Hindi III: Instructional Methods in a Single Subject Classroom *Units: 3*
- • TED 560 - Chinese I: Instructional Methods in a Single Subject Classroom *Units: 3*
- • TED 561 - Chinese II: Instructional Methods in a Single Subject Classroom *Units: 3*
- • TED 562 - Chinese III: Instructional Methods in a Single Subject Classroom *Units: 3*
- • TED 570 - Multiple Subject Fieldwork Seminar I *Units: 1*
- • TED 571 - Multiple Subject Fieldwork Seminar II *Units: 1*
- • TED 575 - Single Subject Fieldwork Seminar I *Units: 1*
- • TED 576 - Single Subject Fieldwork Seminar II *Units: 1*
- • TED 580 - Multiple Subject Student Teaching I *Units: 4*
- • TED 581 - Multiple Subject Student Teaching II *Units: 5*
- • TED 582 - Multiple Subject Intern Teaching I *Units: 5*
- • TED 583 - Multiple Subject Intern Teaching II *Units: 5*
- • TED 585 - Single Subject Field Placement I *Units: 5*
- • TED 586 - Single Subject Field Placement II *Units: 5*
- • TED 587 - Single Subject Intern Teaching I *Units: 5*
- • TED 588 - Single Subject Intern Teaching II *Units: 5*

Educational Technology, M.S.

Educational Technology, M.S. Program

Program Description

The MS in Educational Technology is designed for educators and e-learning developers with a focus on integrating current technologies into educational curricula. The emphasis on integrating technologies in both K-16 and business settings is a strength of the program, along with the focus in each course on 21st Century skills demanded by the Common Core State Standards (CCSS) and the New Generation Science Standards (NGSS), e.g., collaboration, creativity, critical thinking, and communication. This program has been approved to be offered in a Hybrid delivery format.

The program includes instruction in the foundations of educational technology, instructional design

theories, computer applications, using technology for assessment, multimedia instruction, web-based instruction, distance education, and designing and producing educational software and materials. Students in this program gain knowledge in emerging technologies, instructional design, e-learning development, learning theories, multimedia production, and collaborative production. Students also gain a deep understanding of adapting to the demands of the ever-changing nature of technologies.

Career Opportunities

Graduates will be active in school districts, county offices of education, community colleges, the field of instructional design, and the high-tech industry. The positions that our graduates take include educational technologist, instructional designer, curriculum specialist, community college instructor, district technology director, and technology trainer. Finally, graduates will be able to teach more effectively using educational technologies in the classroom.

Admission Requirements

- Candidates must hold a baccalaureate degree from an accredited institution.
- Candidates must have earned a 3.0 Grade Point Average (GPA) in all upper division or post baccalaureate coursework.
- If a candidate has a baccalaureate degree from out of the country, he/she must have his/her transcripts evaluated by the International Graduate Student Admissions Office.
- The MS in Education Technology program requires applicants to show evidence of successful training or teaching experience.
- Candidates have met the University Writing Skills Requirement (UWSR). For information about meeting the UWSR, see the Testing Office website at www.csueastbay/testing or call 510.885.3661.

Student Standing

A student must maintain a GPA of 3.0 or higher for all courses taken in the approved program whether the courses are taken at Cal State East Bay or elsewhere. A student whose GPA falls below 3.0 will be placed on probationary status, will be subject to disqualification from the program, and may be recommended for dismissal from the University. The department also requires that the use of the "CR/NC" grade option in any course applied to a master's and/or certificate program must be approved in advance by the Graduate Coordinator.

Progress Towards Degree

Completed at least 30 units of approved graduate work subject to the following conditions:

- All units must have been earned within the past five (5) years immediately preceding completion of the requirements for the degree.
- No fewer than 70% (or 21 semester units) must have been completed in residence as a regularly matriculated student in the graduate program at Cal State East Bay.
- No more than nine (9) semester units of approved courses may be transferred from another institution, taken through approved extension courses (including Open University), or taken as an "Unclassified Post-Baccalaureate" student.
- At least 15 semester units must have been in courses numbered in the 600-series or equivalent graduate level.

- Satisfied the University Writing Skills Requirement.
- Earned at least a 3.0 GPA in all units satisfying the requirements of the degree program.
- Completed a University Thesis or a Graduate Project course within five (5) years of admission to the program.

Program Learning Outcomes

- Assess the importance and use of technology to support diverse students' learning.
- Identify and investigate educational technology theories and instructional design principles to generate new ideas, projects, and materials for diverse students.
- Create and develop effective instructional or e-learning materials by choosing and applying appropriate tools and design theories individually and collaboratively.
- Gather, use, and analyze data, bibliographic and other resources of materials extensively and critically.
- Write and present scholarly findings and projects independently.

Educational Technology Degree Requirements (30 units)

Required Courses

The following 16 units are required:

- EDUI 610 - The Web as an Interactive Educational Tool *Units: 4*
- EDUI 620 - Theory and Design of E-Learning *Units: 4*
- EDUI 630 - Math, Science and Technology *Units: 4*
- EDUI 640 - Research in Educational Technology *Units: 4*

Elective Courses

Students must choose 10 units of coursework from the following courses:

- EDUI 650 - Mobile Application Development *Units: 4*
- EDUI 660 - Digital Graphics *Units: 4*
- EDUI 670 - Principles of Instructional Design *Units: 4*
- EDUI 680 - Current Technologies *Units: 2*
- EDUI 690 - Independent Study *Units: 1-3*
- EDUI 695 - Educational Technology Internship *Units: 4*

Capstone Requirement

All students must take the following capstone for 4 units to complete the degree requirements:

- EDUI 693 - Master's Project *Units: 4*

Other Graduate & Post-Baccalaureate Degree Requirements

In addition to departmental requirements, every student must also satisfy the University requirements for graduation as described throughout this catalog. These include the 70% unit residence requirement; the five-year rule on currency of subject matter; the minimum number of units in 600-level courses; the "C" minimum grade for each graduate course; the 3.00 cumulative grade point average; and the University Writing Skills Requirement.

Note: For information on meeting the University Writing Skills Requirement, see the Testing Office website at www.csueastbay.edu/testing or call (510) 885-3661.

Department Courses Listed by Course Type

Teacher Education Courses

Department of Teacher Education

Go to information for this department.

Courses

Education: Interdisciplinary - Graduate

- • EDUI 610 - The Web as an Interactive Educational Tool *Units: 4*
- • EDUI 620 - Theory and Design of E-Learning *Units: 4*
- • EDUI 630 - Math, Science and Technology *Units: 4*
- • EDUI 640 - Research in Educational Technology *Units: 4*
- • EDUI 650 - Mobile Application Development *Units: 4*
- • EDUI 660 - Digital Graphics *Units: 4*
- • EDUI 670 - Principles of Instructional Design *Units: 4*
- • EDUI 680 - Current Technologies *Units: 2*
- • EDUI 690 - Independent Study *Units: 1-3*
- • EDUI 691 - University Thesis *Units: 1-4*
- • EDUI 692 - Comprehensive Examination Preparation *Units: 2*
- • EDUI 693 - Master's Project *Units: 4*
- • EDUI 695 - Educational Technology Internship *Units: 4*
- • EDUI 697 - Issues in Education Interdisciplinary Studies *Units: 3*
- • EDUI 699 - Department Thesis *Units: 4*

Education: Online Teaching and Learning

- • OTL 601 - Introduction to Online Teaching and Learning *Units: 3*
- • OTL 602 - Instructional Design Models for Online Learning *Units: 3*
- • OTL 603 - Technology Tools for Online Instruction *Units: 3*
- • OTL 604 - Designing Curriculum for Online Instruction *Units: 3*
- • OTL 605 - Educational Planning and Development for Online Programs *Units: 3*
- • OTL 606 - Research in Online Teaching and Learning *Units: 3*
- • OTL 607 - History and Culture of Online Learning Communities *Units: 3*
- • OTL 672 - Content Development for Online Learning *Units: 3*
- • OTL 673 - Supervising and Evaluating Online Teaching *Units: 3*
- • OTL 674 - Current Issues in Online Learning *Units: 3*

- • OTL 680 - Building the Online Environment *Units: 3*
- • OTL 681 - Creating Digital Media for Online Instruction *Units: 3*
- • OTL 682 - Designing and Implementing User Interfaces for Online Instruction *Units: 3*
- • OTL 683 - Providing Interactivity in the Online Environment *Units: 3*
- • OTL 693 - Capstone Project *Units: 3*

Teacher Education

- • TED 301 - Introduction to Education *Units: 3*
- • TED 302 - Introduction to Teaching *Units: 3*
- • TED 398 - Internship *Units: 1-3*
- • TED 420 - Art Skills for Teachers *Units: 3*
- • TED 425 - Arts Integration for Teachers *Units: 3*
- • TED 470 - Early Childhood Education: Integrated Language & Literacy Development *Units: 3*
- • TED 471 - Early Childhood Education: Integrated Math and Science *Units: 3*
- • TED 472 - Early Childhood Education: Integrated Arts and Social Studies *Units: 3*
- • TED 473 - Early Childhood Education: Inclusive Practices *Units: 3*
- • TED 474 - Early Childhood Education: Professional Seminar and Practicum *Units: 4*
- • TED 490 - Independent Study *Units: 1-4*
- • TED 497 - Issues in Teacher Education *Units: 3*

Teacher Education: Graduate

- • TED 535 - History Social Studies III: Instructional Methods in a Single Subject Classroom *Units: 3*
- • TED 600 - Introduction to Graduate Studies *Units: 1*
- • TED 601 - Professional Research Seminar I *Units: 1*
- • TED 602 - Professional Research Seminar II *Units: 1*
- • TED 603 - Professional Research Seminar III *Units: 1*
- • TED 611 - Reading and Synthesizing Research in Education *Units: 3*
- • TED 612 - Understanding Design and Planning Research in Education *Units: 3*
- • TED 613 - Implementing and Analyzing Research in P-12 *Units: 3*
- • TED 620 - Advanced Studies in Mathematics Education *Units: 3*
- • TED 621 - Advanced Studies in Science Education *Units: 3*
- • TED 622 - Advanced Studies in Expository Reading and Writing *Units: 3*
- • TED 623 - Advanced Studies in Methods for English Language Learners *Units: 3*
- • TED 624 - Advanced Integrated Arts for All Teachers *Units: 3*
- • TED 625 - Teachers as Agents of Change *Units: 3*
- • TED 626 - Advanced Studies in Curriculum and Instruction *Units: 3*
- • TED 627 - Advanced Educational Psychology *Units: 3*
- • TED 630 - Advanced Language & Literacy Development in Early Childhood Education *Units: 4*
- • TED 631 - Advanced Integrated Math & Science in Early Childhood Education *Units: 3*
- • TED 632 - Advanced Integrated Arts & Social Studies in Early Childhood Education *Units: 3*
- • TED 633 - Advanced Special Education Practices in Early Childhood Education *Units: 3*
- • TED 634 - Professional Leadership in Early Childhood Education *Units: 2*
- • TED 635 - Field Based Practicum in Early Childhood Education *Units: 2*
- • TED 660 - Literacy Research and Methods *Units: 3*
- • TED 661 - Reading Comprehension Research and Methods *Units: 2*
- • TED 662 - Culture of Literacy: Focus on Diversity *Units: 2*
- • TED 663 - Literacy Assessment *Units: 3*
- • TED 664 - Literacy Intervention *Units: 3*

- • TED 670 - The Science of Reading Foundations *Units: 3*
- • TED 671 - Early Literacy Foundations *Units: 3*
- • TED 672 - Secondary Literacy Foundations *Units: 3*
- • TED 687 - Reading Research & Evaluation *Units: 3*
- • TED 688 - Research in Education *Units: 1*
- • TED 690 - Independent Study *Units: 1-3*
- • TED 691 - University Thesis *Units: 1-4*
- • TED 692 - Comprehensive Examination Preparation *Units: 2*
- • TED 693 - Master's Project *Units: 3*
- • TED 695 - Practicum *Units: 1*
- • TED 697 - Issues in Teacher Education *Units: 1-4*
- • TED 698 - Internship *Units: 1-3*
- • TED 699 - Department Thesis *Units: 1-4*

Teacher Education: Post-Baccalaureate

- • TED 500 - Foundations of Multiple Subject Education *Units: 4*
- • TED 501 - Introduction to Teaching Emergent Bilinguals *Units: 1*
- • TED 502 - Inclusive Teaching Practices in a Multiple Subject Classroom *Units: 3*
- • TED 503 - Equitable Teaching Practices in a Multiple Subject Classroom *Units: 3*
- • TED 504 - Introduction to Teaching Special Populations *Units: 1*
- • TED 505 - Teaching English Learners in the Multiple Subject Classroom *Units: 3*
- • TED 507 - Technology in the Multiple Subject Classroom *Units: 2*
- • TED 508 - Curriculum & Instruction: Reading *Units: 3*
- • TED 509 - Curriculum & Instruction: Language Arts and Social Studies *Units: 4*
- • TED 510 - Curriculum & Instruction: Mathematics in a Multiple Subject Classroom *Units: 3*
- • TED 511 - Curriculum & Instruction: Visual & Performing Arts *Units: 2*
- • TED 512 - Curriculum & Instruction: Science in the Multiple Subject Classroom *Units: 3*
- • TED 513 - Curriculum & Instruction: Health and Physical Education *Units: 2*
- • TED 520 - Foundations of Single Subject Education *Units: 4*
- • TED 521 - Content Literacy for All Learners *Units: 4*
- • TED 522 - Introduction to Teaching Emergent Bilinguals *Units: 1*
- • TED 523 - Inclusive Teaching Practices in a Single Subject Classroom A *Units: 3*
- • TED 524 - Inclusive Teaching Practices in a Single Subject Classroom B *Units: 3*
- • TED 525 - Teaching Special Education Students in a Single Subject Classroom *Units: 1*
- • TED 528 - Technology in the Single Subject Classroom *Units: 2*
- • TED 529 - Professional Responsibilities in Education *Units: 3*
- • TED 530 - English I: Instructional Methods in a Single Subject Classroom *Units: 3*
- • TED 531 - English II: Instructional Methods in a Single Subject Classroom *Units: 3*
- • TED 532 - English III: Instructional Methods in a Single Subject Classroom *Units: 3*
- • TED 533 - Historical Social Studies I: Instructional Methods in a Single Subject Classroom *Units: 3*
- • TED 534 - History Social Studies II: Instructional Methods in a Single Subject Classroom *Units: 3*
- • TED 536 - Science I: Instructional Methods in a Single Subject Classroom *Units: 3*
- • TED 537 - Science II: Instructional Methods in a Single Subject Classroom *Units: 3*
- • TED 538 - Science III: Instructional Methods in a Single Subject Classroom *Units: 3*
- • TED 539 - Mathematics I: Instructional Methods in a Single Subject Classroom *Units: 3*
- • TED 540 - Mathematics II: Instructional Methods in a Single Subject Classroom *Units: 3*
- • TED 541 - Mathematics III: Instructional Methods in a Single Subject Classroom *Units: 3*
- • TED 542 - Visual Arts I: Instructional Methods in a Single Subject Classroom *Units: 3*

- • TED 543 - Visual Arts II: Instructional Methods in a Single Subject Classroom *Units: 3*
- • TED 544 - Visual Arts III: Instructional Methods in a Single Subject Classroom *Units: 3*
- • TED 545 - Music I: Instructional Methods in a Single Subject Classroom *Units: 3*
- • TED 546 - Music II: Instructional Methods in a Single Subject Classroom *Units: 3*
- • TED 547 - Music III: Instructional Methods in a Single Subject Classroom *Units: 3*
- • TED 548 - Physical Education I- Instructional Methods in a Single Subject Classroom *Units: 3*
- • TED 549 - Physical Education II- Instructional Methods in a Single Subject Classroom *Units: 3*
- • TED 550 - Physical Education III - Instructional Methods in a Single Subject Classroom *Units: 3*
- • TED 551 - Spanish I- Instructional Methods in a Single Subject Classroom *Units: 3*
- • TED 552 - Spanish II: Instructional Methods in a Single Subject Classroom *Units: 3*
- • TED 553 - Spanish III - Instructional Methods in a Single Subject Classroom *Units: 3*
- • TED 554 - French I - Instructional Methods in a Single Subject Classroom *Units: 3*
- • TED 555 - French II - Instructional Methods in a Single Subject Classroom *Units: 3*
- • TED 556 - French III - Instructional Methods in a Single Subject Classroom *Units: 3*
- • TED 557 - Hindi I: Instructional Methods in a Single Subject Classroom *Units: 3*
- • TED 558 - Hindi II: Instructional Methods in a Single Subject Classroom *Units: 3*
- • TED 559 - Hindi III: Instructional Methods in a Single Subject Classroom *Units: 3*
- • TED 560 - Chinese I: Instructional Methods in a Single Subject Classroom *Units: 3*
- • TED 561 - Chinese II: Instructional Methods in a Single Subject Classroom *Units: 3*
- • TED 562 - Chinese III: Instructional Methods in a Single Subject Classroom *Units: 3*
- • TED 570 - Multiple Subject Fieldwork Seminar I *Units: 1*
- • TED 571 - Multiple Subject Fieldwork Seminar II *Units: 1*
- • TED 575 - Single Subject Fieldwork Seminar I *Units: 1*
- • TED 576 - Single Subject Fieldwork Seminar II *Units: 1*
- • TED 580 - Multiple Subject Student Teaching I *Units: 4*
- • TED 581 - Multiple Subject Student Teaching II *Units: 5*
- • TED 582 - Multiple Subject Intern Teaching I *Units: 5*
- • TED 583 - Multiple Subject Intern Teaching II *Units: 5*
- • TED 585 - Single Subject Field Placement I *Units: 5*
- • TED 586 - Single Subject Field Placement II *Units: 5*
- • TED 587 - Single Subject Intern Teaching I *Units: 5*
- • TED 588 - Single Subject Intern Teaching II *Units: 5*

Reading and Literacy, M.S.

Reading and Literacy, M.S. Program

Program Description

The Department of Teacher Education at California State University, East Bay offers two levels for graduate study in the area of reading and language arts:

The Reading and Literacy Added Authorization (RLAA) is granted by the California Commission on Teacher Credentialing (CCTC) upon recommendation by Cal State East Bay. It authorizes service as a reading specialist at a school site. This program is 14 semester units.

The Master of Science in Reading and Literacy is granted by Cal State East Bay and has been approved to be offered in a Hybrid delivery format. Candidates who have earned the Reading and Literacy Added

Authorization or previously earned the Reading and Language Arts Specialist Credential, are eligible to continue their graduate studies and earn the M.S. degree. This program is 30 semester units: 14 units for the Reading and Literacy Added Authorization and 16 additional units beyond those required for the RLAA.

If you completed your credential within five years of the MS completion date (7 years with a waiver), you may complete the 30 units including the Reading Added Authorization courses (14 units) and MS courses (7 units) by bringing in 9 units of coursework from an accredited credential program. If you completed your credential over five years beyond MS completion date (7 years with a waiver), the electives TED 670, 671 and 672 may be completed to meet this remaining 9-unit requirement. The entire program, including the Reading and Literacy Added Authorization and the MS degree can be completed in one calendar year with the inclusion of 9 approved credential program units.

Upon successful completion of coursework and three or more years of classroom teaching, candidates will be recommended for the state-issued Reading Literacy Added Authorization. Candidates with less than three years of teaching experience are welcome to complete the program and apply for the Reading and Literacy Added Authorization once they have the required classroom teaching experience. Candidates complete three more graduate courses to receive a MS in Reading and Literacy.

Career Opportunities

Graduates may become specialists in Elementary and Secondary Literacy Development. They may also work in interventionist positions, such as Reading Intervention Teacher, Literacy Coach, District Literacy Specialist, Grade Level Chair, and/or Department Chair.

Admission Requirements

- Baccalaureate degree from an accredited university.
- GPA of 3.0 in upper division undergraduate courses and post-baccalaureate courses.
- A valid Multiple Subject or Single Subject Teaching Credential.
- Demonstrated potential to become a leader in reading and language arts curriculum and instruction.

Admission Process

Submit the following to the Department of Teacher Education:

- University graduate and post-baccalaureate application (online CSU application)
- Graduate application fee
- Statement of residency if a first-time Cal State East Bay student
- One official copy of all transcripts from all colleges and universities attended
- An application form for the Teacher Education Department.
- Personal Data Summary Form
- Basic Skills Requirement, such as CBEST scores
- Copy of either a valid Multiple Subject or Single Subject Teaching Credential.
- Three letters of recommendation, two of which address the candidate's ability to teach and work with K-12 students

Candidates who meet admission requirements will be notified by email and must then successfully complete an admission interview with the Program Coordinator.

Admission

No more than 9 units taken in nonresident status can be applied toward a master's degree. This includes approved credit-bearing extension courses, transfer courses, and residence courses taken before admission to the master's degree program. Lower division, non-credit Extension, 700 level, and Credit/No Credit (Pass/Fail) courses are not applicable to the degree except courses offered only for Credit/No Credit (Pass/Fail). Filing for a substitution for this last item is up to the student. Nine units of coursework from a basic credential program (Multiple or Single Subject) may be applied toward a master's degree.

A student with minor deficiencies in the requirements below may be admitted to a program as a "Conditionally Classified Graduate" student.

To be awarded "Classified Graduate" standing, a student must:

- Have a GPA of 3.0 or better in all upper division work in the major and in all post-baccalaureate work;
- Hold a valid teaching credential and/or show evidence of successful classroom teaching experience as determined by the department;
- Have met the University Writing Skills Requirement. (For information on meeting the University Writing Skills Requirement, see the Testing Office website at www.csueastbay.edu/testing or call 510.885.3661.)

Advancement to Candidacy

To be Advanced to Candidacy for the degree, a student must:

- Have met the University Writing Skills Requirement. For more information see the Testing Office website at www.csueastbay.edu/testing or call 510.885.3661.)
- Be a "Classified Graduate" student in good standing;
- Have completed at least 30 semester units considered by the Department to be applicable toward the degree requirements with a GPA of 3.0 or better;
- Have an approved program of study for the degree (on a Major Check Form) signed by the advisor;
- Have completed or be currently enrolled in TED 688, Research in Education;
- Have been approved for Advancement to Candidacy by the department on the recommendation of faculty teaching in the student's area of study. This approval is initiated by filing the form, Petition to Establish Thesis/Project Committee, with a thesis or project abstract attached, or by obtaining permission to register for the Graduate Synthesis course.

GPA Requirement

A student must maintain a GPA of 3.0 or higher in all courses taken in the approved program signed by the advisor, whether the courses are taken at Cal State East Bay or elsewhere. A student whose GPA falls below 3.0 will be placed on probationary status, will be subject to disqualification from the program, and may be recommended for dismissal from the university. (The department also requires that the use of the "CR/NC" grade option in any course applied to a master's and/or certificate program must be approved in advance by the Graduate Coordinator.)

Degree Requirements (30 units)

To receive the M.S. in Reading and Literacy, a student must have:

- Been Advanced to Candidacy;
- Completed 30 semester units of approved graduate work, subject to the following conditions:
- All units must have been earned within the past five (5) years immediately preceding completion of the requirements for the degree;
- No fewer than twenty-one (21) semester units may have been completed in residence (i.e., after admission to the program as a regularly matriculated student) in the graduate program at Cal State East Bay;
- No fewer than two (2) nor more than four (4) semester units may have been assigned to a University Thesis, nor more than four (4) to a Department Thesis or Project, nor fewer than three (3) in the Graduate Synthesis course;
- No more than nine (9) semester units of approved courses may be transferred from another institution, taken through approved extension courses (including Open University), or taken as an "Unclassified Post-Baccalaureate" student;
- At least fifteen (15) semester units must have been in courses in the 600-series or equivalent graduate level;
- Satisfied the University Writing Skills Requirement; for more information see the Testing Office website at www.csueastbay.edu/testing or call 510.885.3661.
- Earned at least a 3.0 GPA in all post-baccalaureate work and in all graduate work at Cal State East Bay and in all units satisfying the requirements of the degree program;
- Completed a Project acceptable to the department faculty.
- Met, within five (5) years of admission to the program, the specific requirements of that program.

Graduation

A student must apply to graduate and request a degree check during the first two (2) weeks of the semester prior to the semester in which completion of the program is expected. Students must apply online and pay the required fee.

Other Degree Requirements

In addition to departmental requirements, every student must also satisfy the University requirements for graduation described in the Graduate Degree Information chapter in this catalog. These include the 21-unit residence requirement, the five-year rule on currency of subject matter, the minimum number of units of 600-level courses, the 3.00 grade point average, and the University Writing Skills requirement.

Program Learning Outcomes

- Demonstrate a thorough understanding of theory and research on an effective culture of literacy for diverse prekindergarten through high school students, their families, and communities;
- Demonstrate knowledge of research-based instructional practices in each component of literacy and the ability to assess, instruct, and provide intervention for each component of literacy instruction, including phonemic awareness, phonics, fluency, oral language development, reading and listening comprehension, and vocabulary development, and writing;
- Successfully plan and implement a balanced literacy environment, including the selection and use instructional materials, technology, routines, and strategies that are appropriately aligned with students' assessed language and literacy needs; and
- Complete an action research project in the field of literacy, including a review of the research literature, planning and implementing an instructional unit, and an analysis of student learning and research results.

Reading and Literacy Degree Requirements (30 units)

Reading and Literacy Added Authorization (RLAA)

These six (6) courses for 14 units are required for both the Reading and Literacy Added Authorization and the M.S. in Reading and Literacy:

- TED 660 - Literacy Research and Methods *Units: 3*
- TED 661 - Reading Comprehension Research and Methods *Units: 2*
- TED 662 - Culture of Literacy: Focus on Diversity *Units: 2*
- TED 663 - Literacy Assessment *Units: 3*
- TED 664 - Literacy Intervention *Units: 3*
- TED 695 - Practicum *Units: 1*

Additional M.S. Coursework

In addition to the courses for the RLAA, the following additional five (5) courses for 13 units are required for the M.S. in Reading and Literacy. TED 670, 671, and 672 are required for students who do not carry units over from a credential program:

- TED 670 - The Science of Reading Foundations *Units: 3*
- TED 671 - Early Literacy Foundations *Units: 3*
- TED 672 - Secondary Literacy Foundations *Units: 3*
- TED 687 - Reading Research & Evaluation *Units: 3*
- TED 688 - Research in Education *Units: 1*

M.S. Capstone

The following Master's Project for 3 units is required to complete the M.S. Reading and Literacy degree requirements:

- TED 693 - Master's Project *Units: 3*

Other Graduate & Post-Baccalaureate Degree Requirements

In addition to departmental requirements, every student must also satisfy the University requirements for graduation as described throughout this catalog. These include the 70% unit residence requirement; the five-year rule on currency of subject matter; the minimum number of units in 600-level courses; the "C" minimum grade for each graduate course; the 3.00 cumulative grade point average; and the University Writing Skills Requirement.

Note: For information on meeting the University Writing Skills Requirement, see the Testing Office website at www.csueastbay.edu/testing or call (510) 885-3661.

Department Courses Listed by Course Type

Teacher Education Courses

Department of Teacher Education

Go to information for this department.

Courses

Education: Interdisciplinary - Graduate

- • EDUI 610 - The Web as an Interactive Educational Tool *Units: 4*
- • EDUI 620 - Theory and Design of E-Learning *Units: 4*
- • EDUI 630 - Math, Science and Technology *Units: 4*
- • EDUI 640 - Research in Educational Technology *Units: 4*
- • EDUI 650 - Mobile Application Development *Units: 4*
- • EDUI 660 - Digital Graphics *Units: 4*
- • EDUI 670 - Principles of Instructional Design *Units: 4*
- • EDUI 680 - Current Technologies *Units: 2*
- • EDUI 690 - Independent Study *Units: 1-3*
- • EDUI 691 - University Thesis *Units: 1-4*
- • EDUI 692 - Comprehensive Examination Preparation *Units: 2*
- • EDUI 693 - Master's Project *Units: 4*
- • EDUI 695 - Educational Technology Internship *Units: 4*
- • EDUI 697 - Issues in Education Interdisciplinary Studies *Units: 3*
- • EDUI 699 - Department Thesis *Units: 4*

Education: Online Teaching and Learning

- • OTL 601 - Introduction to Online Teaching and Learning *Units: 3*
- • OTL 602 - Instructional Design Models for Online Learning *Units: 3*
- • OTL 603 - Technology Tools for Online Instruction *Units: 3*
- • OTL 604 - Designing Curriculum for Online Instruction *Units: 3*
- • OTL 605 - Educational Planning and Development for Online Programs *Units: 3*
- • OTL 606 - Research in Online Teaching and Learning *Units: 3*
- • OTL 607 - History and Culture of Online Learning Communities *Units: 3*
- • OTL 672 - Content Development for Online Learning *Units: 3*
- • OTL 673 - Supervising and Evaluating Online Teaching *Units: 3*
- • OTL 674 - Current Issues in Online Learning *Units: 3*
- • OTL 680 - Building the Online Environment *Units: 3*
- • OTL 681 - Creating Digital Media for Online Instruction *Units: 3*
- • OTL 682 - Designing and Implementing User Interfaces for Online Instruction *Units: 3*
- • OTL 683 - Providing Interactivity in the Online Environment *Units: 3*
- • OTL 693 - Capstone Project *Units: 3*

Teacher Education

- • TED 301 - Introduction to Education *Units: 3*
- • TED 302 - Introduction to Teaching *Units: 3*
- • TED 398 - Internship *Units: 1-3*
- • TED 420 - Art Skills for Teachers *Units: 3*
- • TED 425 - Arts Integration for Teachers *Units: 3*
- • TED 470 - Early Childhood Education: Integrated Language & Literacy Development *Units: 3*
- • TED 471 - Early Childhood Education: Integrated Math and Science *Units: 3*

- • TED 472 - Early Childhood Education: Integrated Arts and Social Studies *Units: 3*
- • TED 473 - Early Childhood Education: Inclusive Practices *Units: 3*
- • TED 474 - Early Childhood Education: Professional Seminar and Practicum *Units: 4*
- • TED 490 - Independent Study *Units: 1-4*
- • TED 497 - Issues in Teacher Education *Units: 3*

Teacher Education: Graduate

- • TED 535 - History Social Studies III: Instructional Methods in a Single Subject Classroom *Units: 3*
- • TED 600 - Introduction to Graduate Studies *Units: 1*
- • TED 601 - Professional Research Seminar I *Units: 1*
- • TED 602 - Professional Research Seminar II *Units: 1*
- • TED 603 - Professional Research Seminar III *Units: 1*
- • TED 611 - Reading and Synthesizing Research in Education *Units: 3*
- • TED 612 - Understanding Design and Planning Research in Education *Units: 3*
- • TED 613 - Implementing and Analyzing Research in P-12 *Units: 3*
- • TED 620 - Advanced Studies in Mathematics Education *Units: 3*
- • TED 621 - Advanced Studies in Science Education *Units: 3*
- • TED 622 - Advanced Studies in Expository Reading and Writing *Units: 3*
- • TED 623 - Advanced Studies in Methods for English Language Learners *Units: 3*
- • TED 624 - Advanced Integrated Arts for All Teachers *Units: 3*
- • TED 625 - Teachers as Agents of Change *Units: 3*
- • TED 626 - Advanced Studies in Curriculum and Instruction *Units: 3*
- • TED 627 - Advanced Educational Psychology *Units: 3*
- • TED 630 - Advanced Language & Literacy Development in Early Childhood Education *Units: 4*
- • TED 631 - Advanced Integrated Math & Science in Early Childhood Education *Units: 3*
- • TED 632 - Advanced Integrated Arts & Social Studies in Early Childhood Education *Units: 3*
- • TED 633 - Advanced Special Education Practices in Early Childhood Education *Units: 3*
- • TED 634 - Professional Leadership in Early Childhood Education *Units: 2*
- • TED 635 - Field Based Practicum in Early Childhood Education *Units: 2*
- • TED 660 - Literacy Research and Methods *Units: 3*
- • TED 661 - Reading Comprehension Research and Methods *Units: 2*
- • TED 662 - Culture of Literacy: Focus on Diversity *Units: 2*
- • TED 663 - Literacy Assessment *Units: 3*
- • TED 664 - Literacy Intervention *Units: 3*
- • TED 670 - The Science of Reading Foundations *Units: 3*
- • TED 671 - Early Literacy Foundations *Units: 3*
- • TED 672 - Secondary Literacy Foundations *Units: 3*
- • TED 687 - Reading Research & Evaluation *Units: 3*
- • TED 688 - Research in Education *Units: 1*
- • TED 690 - Independent Study *Units: 1-3*
- • TED 691 - University Thesis *Units: 1-4*
- • TED 692 - Comprehensive Examination Preparation *Units: 2*
- • TED 693 - Master's Project *Units: 3*
- • TED 695 - Practicum *Units: 1*
- • TED 697 - Issues in Teacher Education *Units: 1-4*
- • TED 698 - Internship *Units: 1-3*
- • TED 699 - Department Thesis *Units: 1-4*

Teacher Education: Post-Baccalaureate

- • TED 500 - Foundations of Multiple Subject Education *Units: 4*
- • TED 501 - Introduction to Teaching Emergent Bilinguals *Units: 1*
- • TED 502 - Inclusive Teaching Practices in a Multiple Subject Classroom *Units: 3*
- • TED 503 - Equitable Teaching Practices in a Multiple Subject Classroom *Units: 3*
- • TED 504 - Introduction to Teaching Special Populations *Units: 1*
- • TED 505 - Teaching English Learners in the Multiple Subject Classroom *Units: 3*
- • TED 507 - Technology in the Multiple Subject Classroom *Units: 2*
- • TED 508 - Curriculum & Instruction: Reading *Units: 3*
- • TED 509 - Curriculum & Instruction: Language Arts and Social Studies *Units: 4*
- • TED 510 - Curriculum & Instruction: Mathematics in a Multiple Subject Classroom *Units: 3*
- • TED 511 - Curriculum & Instruction: Visual & Performing Arts *Units: 2*
- • TED 512 - Curriculum & Instruction: Science in the Multiple Subject Classroom *Units: 3*
- • TED 513 - Curriculum & Instruction: Health and Physical Education *Units: 2*
- • TED 520 - Foundations of Single Subject Education *Units: 4*
- • TED 521 - Content Literacy for All Learners *Units: 4*
- • TED 522 - Introduction to Teaching Emergent Bilinguals *Units: 1*
- • TED 523 - Inclusive Teaching Practices in a Single Subject Classroom A *Units: 3*
- • TED 524 - Inclusive Teaching Practices in a Single Subject Classroom B *Units: 3*
- • TED 525 - Teaching Special Education Students in a Single Subject Classroom *Units: 1*
- • TED 528 - Technology in the Single Subject Classroom *Units: 2*
- • TED 529 - Professional Responsibilities in Education *Units: 3*
- • TED 530 - English I: Instructional Methods in a Single Subject Classroom *Units: 3*
- • TED 531 - English II: Instructional Methods in a Single Subject Classroom *Units: 3*
- • TED 532 - English III: Instructional Methods in a Single Subject Classroom *Units: 3*
- • TED 533 - Historical Social Studies I: Instructional Methods in a Single Subject Classroom *Units: 3*
- • TED 534 - History Social Studies II: Instructional Methods in a Single Subject Classroom *Units: 3*
- • TED 536 - Science I: Instructional Methods in a Single Subject Classroom *Units: 3*
- • TED 537 - Science II: Instructional Methods in a Single Subject Classroom *Units: 3*
- • TED 538 - Science III: Instructional Methods in a Single Subject Classroom *Units: 3*
- • TED 539 - Mathematics I: Instructional Methods in a Single Subject Classroom *Units: 3*
- • TED 540 - Mathematics II: Instructional Methods in a Single Subject Classroom *Units: 3*
- • TED 541 - Mathematics III: Instructional Methods in a Single Subject Classroom *Units: 3*
- • TED 542 - Visual Arts I: Instructional Methods in a Single Subject Classroom *Units: 3*
- • TED 543 - Visual Arts II: Instructional Methods in a Single Subject Classroom *Units: 3*
- • TED 544 - Visual Arts III: Instructional Methods in a Single Subject Classroom *Units: 3*
- • TED 545 - Music I: Instructional Methods in a Single Subject Classroom *Units: 3*
- • TED 546 - Music II: Instructional Methods in a Single Subject Classroom *Units: 3*
- • TED 547 - Music III: Instructional Methods in a Single Subject Classroom *Units: 3*
- • TED 548 - Physical Education I- Instructional Methods in a Single Subject Classroom *Units: 3*
- • TED 549 - Physical Education II- Instructional Methods in a Single Subject Classroom *Units: 3*
- • TED 550 - Physical Education III - Instructional Methods in a Single Subject Classroom *Units: 3*
- • TED 551 - Spanish I- Instructional Methods in a Single Subject Classroom *Units: 3*
- • TED 552 - Spanish II: Instructional Methods in a Single Subject Classroom *Units: 3*
- • TED 553 - Spanish III - Instructional Methods in a Single Subject Classroom *Units: 3*
- • TED 554 - French I - Instructional Methods in a Single Subject Classroom *Units: 3*
- • TED 555 - French II - Instructional Methods in a Single Subject Classroom *Units: 3*
- • TED 556 - French III - Instructional Methods in a Single Subject Classroom *Units: 3*
- • TED 557 - Hindi I: Instructional Methods in a Single Subject Classroom *Units: 3*

- • TED 558 - Hindi II: Instructional Methods in a Single Subject Classroom *Units: 3*
- • TED 559 - Hindi III: Instructional Methods in a Single Subject Classroom *Units: 3*
- • TED 560 - Chinese I: Instructional Methods in a Single Subject Classroom *Units: 3*
- • TED 561 - Chinese II: Instructional Methods in a Single Subject Classroom *Units: 3*
- • TED 562 - Chinese III: Instructional Methods in a Single Subject Classroom *Units: 3*
- • TED 570 - Multiple Subject Fieldwork Seminar I *Units: 1*
- • TED 571 - Multiple Subject Fieldwork Seminar II *Units: 1*
- • TED 575 - Single Subject Fieldwork Seminar I *Units: 1*
- • TED 576 - Single Subject Fieldwork Seminar II *Units: 1*
- • TED 580 - Multiple Subject Student Teaching I *Units: 4*
- • TED 581 - Multiple Subject Student Teaching II *Units: 5*
- • TED 582 - Multiple Subject Intern Teaching I *Units: 5*
- • TED 583 - Multiple Subject Intern Teaching II *Units: 5*
- • TED 585 - Single Subject Field Placement I *Units: 5*
- • TED 586 - Single Subject Field Placement II *Units: 5*
- • TED 587 - Single Subject Intern Teaching I *Units: 5*
- • TED 588 - Single Subject Intern Teaching II *Units: 5*

Master Online Degree Programs

Education, M.S.: Online Teaching and Learning Concentration (Online Only Program)

Please note: This program is only available through Continuing Education.

Education, M.S.: Online Teaching and Learning Concentration

General Information

One of the most comprehensive online teaching and learning training programs offered in the world, the M.S. Education, Online Teaching and Learning Concentration (MSEd-OTL) program has been empowering educators, instructors, trainers, and support staff to effectively design and implement online courses since 1999. Our students develop their own online courses or programs using best practices in online teaching and learning. Student-created courses will be designed for their areas of expertise, the needs of their learners, and their institutional settings. Our program is not cohort-based, with all students taking the same courses each semester. Rather, students can complete the degree by choosing either the Fast Track or Flex Track option. However, each course has weekly assignments and due dates so it is not self-paced.

Career Opportunities

The training and skills acquired in the MSEd-OTL program can transfer into almost any educational or training fields, including: university, community college, K-12, corporate, military, educational administration, curriculum design, technical support, and other fields requiring design, development, implementation, and teaching services.

Admission Requirements

To be admitted to the Online Teaching and Learning Concentration in the M.S. Education, students must meet Cal State East Bay requirements for admission to a graduate program in Education. Students from schools where English is not the primary language of instruction are required to achieve a TOEFL score of at least 213 (550 on the former grading scale) for admission to the program. To earn a Master of Science in Education with a concentration in Online Teaching and Learning (MSEd-OTL), students must complete 10 courses (30 units) as outlined. All courses are 3-semester units.

For admission into the M.S. Education, Online Teaching and Learning Concentration degree program, applicants must do the following:

- Hold a bachelor's degree from an accredited institution
- Have earned a GPA of 3.0 in the last 90 semester units (or semester equivalent) of upper-division, post-baccalaureate or graduate-level course-work.
- Have teaching or training experience.
- Submit all graduate application materials to the Office of Admissions by the deadline date.
- Request official transcripts from all colleges and universities attended to be sent to Cal State East Bay. Final official transcripts, showing degree completion, must be received prior to enrollment in classes.
- Submit a letter of intent to the OTL Program Coordinator.

For detailed information on how to apply to the program, go to the Admissions Information page.

Program Learning Outcomes

- demonstrate knowledge of learning theory and instructional design
- apply understanding of recent online teaching technologies
- incorporate recommendations of recent research in online teaching and learning
- apply knowledge of learning differences and disabilities
- describe a rationale for design features of an effective online course
- cite specific supporting research and best practices from the literature related to online teaching and learning in their discipline

Education Degree Requirements (30 units)

Required Courses

The following 21 units are required coursework for the M.S. Education, Online Teaching & Learning Concentration degree:

- OTL 601 - Introduction to Online Teaching and Learning *Units: 3 (*see Errata Chapter for course modification)*
- OTL 602 - Instructional Design Models for Online Learning *Units: 3 (*see Errata Chapter for course modification)*
- OTL 603 - Technology Tools for Online Instruction *Units: 3*
- OTL 604 - Designing Curriculum for Online Instruction *Units: 3*
- OTL 605 - Educational Planning and Development for Online Programs *Units: 3*

- OTL 606 - Research in Online Teaching and Learning *Units: 3*
- OTL 607 - History and Culture of Online Learning Communities *Units: 3*

Elective Courses

Students must choose two (2) of the following elective courses for 6 units as part of the degree requirements:

Theoretical Electives: Choose one (1).

- OTL 672 - Content Development for Online Learning *Units: 3*
- OTL 673 - Supervising and Evaluating Online Teaching *Units: 3*
- OTL 674 - Current Issues in Online Learning *Units: 3*

Methodological Electives: Choose one (1).

- OTL 680 - Building the Online Environment *Units: 3*
- OTL 681 - Creating Digital Media for Online Instruction *Units: 3*
- OTL 682 - Designing and Implementing User Interfaces for Online Instruction *Units: 3*
- OTL 683 - Providing Interactivity in the Online Environment *Units: 3*

Capstone Experience

The capstone is required for all students to complete the degree:

- OTL 693 - Capstone Project *Units: 3* (*see Errata Chapter for course modification)

Department Courses Listed by Course Type

Teacher Education Courses

Department of Teacher Education

Go to information for this department.

Courses

Education: Interdisciplinary - Graduate

- • EDUI 610 - The Web as an Interactive Educational Tool *Units: 4*
- • EDUI 620 - Theory and Design of E-Learning *Units: 4*
- • EDUI 630 - Math, Science and Technology *Units: 4*
- • EDUI 640 - Research in Educational Technology *Units: 4*
- • EDUI 650 - Mobile Application Development *Units: 4*
- • EDUI 660 - Digital Graphics *Units: 4*
- • EDUI 670 - Principles of Instructional Design *Units: 4*

- • EDUI 680 - Current Technologies *Units: 2*
- • EDUI 690 - Independent Study *Units: 1-3*
- • EDUI 691 - University Thesis *Units: 1-4*
- • EDUI 692 - Comprehensive Examination Preparation *Units: 2*
- • EDUI 693 - Master's Project *Units: 4*
- • EDUI 695 - Educational Technology Internship *Units: 4*
- • EDUI 697 - Issues in Education Interdisciplinary Studies *Units: 3*
- • EDUI 699 - Department Thesis *Units: 4*

Education: Online Teaching and Learning

- • OTL 601 - Introduction to Online Teaching and Learning *Units: 3*
- • OTL 602 - Instructional Design Models for Online Learning *Units: 3*
- • OTL 603 - Technology Tools for Online Instruction *Units: 3*
- • OTL 604 - Designing Curriculum for Online Instruction *Units: 3*
- • OTL 605 - Educational Planning and Development for Online Programs *Units: 3*
- • OTL 606 - Research in Online Teaching and Learning *Units: 3*
- • OTL 607 - History and Culture of Online Learning Communities *Units: 3*
- • OTL 672 - Content Development for Online Learning *Units: 3*
- • OTL 673 - Supervising and Evaluating Online Teaching *Units: 3*
- • OTL 674 - Current Issues in Online Learning *Units: 3*
- • OTL 680 - Building the Online Environment *Units: 3*
- • OTL 681 - Creating Digital Media for Online Instruction *Units: 3*
- • OTL 682 - Designing and Implementing User Interfaces for Online Instruction *Units: 3*
- • OTL 683 - Providing Interactivity in the Online Environment *Units: 3*
- • OTL 693 - Capstone Project *Units: 3*

Teacher Education

- • TED 301 - Introduction to Education *Units: 3*
- • TED 302 - Introduction to Teaching *Units: 3*
- • TED 398 - Internship *Units: 1-3*
- • TED 420 - Art Skills for Teachers *Units: 3*
- • TED 425 - Arts Integration for Teachers *Units: 3*
- • TED 470 - Early Childhood Education: Integrated Language & Literacy Development *Units: 3*
- • TED 471 - Early Childhood Education: Integrated Math and Science *Units: 3*
- • TED 472 - Early Childhood Education: Integrated Arts and Social Studies *Units: 3*
- • TED 473 - Early Childhood Education: Inclusive Practices *Units: 3*
- • TED 474 - Early Childhood Education: Professional Seminar and Practicum *Units: 4*
- • TED 490 - Independent Study *Units: 1-4*
- • TED 497 - Issues in Teacher Education *Units: 3*

Teacher Education: Graduate

- • TED 535 - History Social Studies III: Instructional Methods in a Single Subject Classroom *Units: 3*
- • TED 600 - Introduction to Graduate Studies *Units: 1*
- • TED 601 - Professional Research Seminar I *Units: 1*
- • TED 602 - Professional Research Seminar II *Units: 1*
- • TED 603 - Professional Research Seminar III *Units: 1*
- • TED 611 - Reading and Synthesizing Research in Education *Units: 3*
- • TED 612 - Understanding Design and Planning Research in Education *Units: 3*
- • TED 613 - Implementing and Analyzing Research in P-12 *Units: 3*

- • TED 620 - Advanced Studies in Mathematics Education *Units: 3*
- • TED 621 - Advanced Studies in Science Education *Units: 3*
- • TED 622 - Advanced Studies in Expository Reading and Writing *Units: 3*
- • TED 623 - Advanced Studies in Methods for English Language Learners *Units: 3*
- • TED 624 - Advanced Integrated Arts for All Teachers *Units: 3*
- • TED 625 - Teachers as Agents of Change *Units: 3*
- • TED 626 - Advanced Studies in Curriculum and Instruction *Units: 3*
- • TED 627 - Advanced Educational Psychology *Units: 3*
- • TED 630 - Advanced Language & Literacy Development in Early Childhood Education *Units: 4*
- • TED 631 - Advanced Integrated Math & Science in Early Childhood Education *Units: 3*
- • TED 632 - Advanced Integrated Arts & Social Studies in Early Childhood Education *Units: 3*
- • TED 633 - Advanced Special Education Practices in Early Childhood Education *Units: 3*
- • TED 634 - Professional Leadership in Early Childhood Education *Units: 2*
- • TED 635 - Field Based Practicum in Early Childhood Education *Units: 2*
- • TED 660 - Literacy Research and Methods *Units: 3*
- • TED 661 - Reading Comprehension Research and Methods *Units: 2*
- • TED 662 - Culture of Literacy: Focus on Diversity *Units: 2*
- • TED 663 - Literacy Assessment *Units: 3*
- • TED 664 - Literacy Intervention *Units: 3*
- • TED 670 - The Science of Reading Foundations *Units: 3*
- • TED 671 - Early Literacy Foundations *Units: 3*
- • TED 672 - Secondary Literacy Foundations *Units: 3*
- • TED 687 - Reading Research & Evaluation *Units: 3*
- • TED 688 - Research in Education *Units: 1*
- • TED 690 - Independent Study *Units: 1-3*
- • TED 691 - University Thesis *Units: 1-4*
- • TED 692 - Comprehensive Examination Preparation *Units: 2*
- • TED 693 - Master's Project *Units: 3*
- • TED 695 - Practicum *Units: 1*
- • TED 697 - Issues in Teacher Education *Units: 1-4*
- • TED 698 - Internship *Units: 1-3*
- • TED 699 - Department Thesis *Units: 1-4*

Teacher Education: Post-Baccalaureate

- • TED 500 - Foundations of Multiple Subject Education *Units: 4*
- • TED 501 - Introduction to Teaching Emergent Bilinguals *Units: 1*
- • TED 502 - Inclusive Teaching Practices in a Multiple Subject Classroom *Units: 3*
- • TED 503 - Equitable Teaching Practices in a Multiple Subject Classroom *Units: 3*
- • TED 504 - Introduction to Teaching Special Populations *Units: 1*
- • TED 505 - Teaching English Learners in the Multiple Subject Classroom *Units: 3*
- • TED 507 - Technology in the Multiple Subject Classroom *Units: 2*
- • TED 508 - Curriculum & Instruction: Reading *Units: 3*
- • TED 509 - Curriculum & Instruction: Language Arts and Social Studies *Units: 4*
- • TED 510 - Curriculum & Instruction: Mathematics in a Multiple Subject Classroom *Units: 3*
- • TED 511 - Curriculum & Instruction: Visual & Performing Arts *Units: 2*
- • TED 512 - Curriculum & Instruction: Science in the Multiple Subject Classroom *Units: 3*
- • TED 513 - Curriculum & Instruction: Health and Physical Education *Units: 2*
- • TED 520 - Foundations of Single Subject Education *Units: 4*

- • TED 521 - Content Literacy for All Learners *Units: 4*
- • TED 522 - Introduction to Teaching Emergent Bilinguals *Units: 1*
- • TED 523 - Inclusive Teaching Practices in a Single Subject Classroom A *Units: 3*
- • TED 524 - Inclusive Teaching Practices in a Single Subject Classroom B *Units: 3*
- • TED 525 - Teaching Special Education Students in a Single Subject Classroom *Units: 1*
- • TED 528 - Technology in the Single Subject Classroom *Units: 2*
- • TED 529 - Professional Responsibilities in Education *Units: 3*
- • TED 530 - English I: Instructional Methods in a Single Subject Classroom *Units: 3*
- • TED 531 - English II: Instructional Methods in a Single Subject Classroom *Units: 3*
- • TED 532 - English III: Instructional Methods in a Single Subject Classroom *Units: 3*
- • TED 533 - Historical Social Studies I: Instructional Methods in a Single Subject Classroom *Units: 3*
- • TED 534 - History Social Studies II: Instructional Methods in a Single Subject Classroom *Units: 3*
- • TED 536 - Science I: Instructional Methods in a Single Subject Classroom *Units: 3*
- • TED 537 - Science II: Instructional Methods in a Single Subject Classroom *Units: 3*
- • TED 538 - Science III: Instructional Methods in a Single Subject Classroom *Units: 3*
- • TED 539 - Mathematics I: Instructional Methods in a Single Subject Classroom *Units: 3*
- • TED 540 - Mathematics II: Instructional Methods in a Single Subject Classroom *Units: 3*
- • TED 541 - Mathematics III: Instructional Methods in a Single Subject Classroom *Units: 3*
- • TED 542 - Visual Arts I: Instructional Methods in a Single Subject Classroom *Units: 3*
- • TED 543 - Visual Arts II: Instructional Methods in a Single Subject Classroom *Units: 3*
- • TED 544 - Visual Arts III: Instructional Methods in a Single Subject Classroom *Units: 3*
- • TED 545 - Music I: Instructional Methods in a Single Subject Classroom *Units: 3*
- • TED 546 - Music II: Instructional Methods in a Single Subject Classroom *Units: 3*
- • TED 547 - Music III: Instructional Methods in a Single Subject Classroom *Units: 3*
- • TED 548 - Physical Education I- Instructional Methods in a Single Subject Classroom *Units: 3*
- • TED 549 - Physical Education II- Instructional Methods in a Single Subject Classroom *Units: 3*
- • TED 550 - Physical Education III - Instructional Methods in a Single Subject Classroom *Units: 3*
- • TED 551 - Spanish I- Instructional Methods in a Single Subject Classroom *Units: 3*
- • TED 552 - Spanish II: Instructional Methods in a Single Subject Classroom *Units: 3*
- • TED 553 - Spanish III - Instructional Methods in a Single Subject Classroom *Units: 3*
- • TED 554 - French I - Instructional Methods in a Single Subject Classroom *Units: 3*
- • TED 555 - French II - Instructional Methods in a Single Subject Classroom *Units: 3*
- • TED 556 - French III - Instructional Methods in a Single Subject Classroom *Units: 3*
- • TED 557 - Hindi I: Instructional Methods in a Single Subject Classroom *Units: 3*
- • TED 558 - Hindi II: Instructional Methods in a Single Subject Classroom *Units: 3*
- • TED 559 - Hindi III: Instructional Methods in a Single Subject Classroom *Units: 3*
- • TED 560 - Chinese I: Instructional Methods in a Single Subject Classroom *Units: 3*
- • TED 561 - Chinese II: Instructional Methods in a Single Subject Classroom *Units: 3*
- • TED 562 - Chinese III: Instructional Methods in a Single Subject Classroom *Units: 3*
- • TED 570 - Multiple Subject Fieldwork Seminar I *Units: 1*
- • TED 571 - Multiple Subject Fieldwork Seminar II *Units: 1*
- • TED 575 - Single Subject Fieldwork Seminar I *Units: 1*
- • TED 576 - Single Subject Fieldwork Seminar II *Units: 1*
- • TED 580 - Multiple Subject Student Teaching I *Units: 4*
- • TED 581 - Multiple Subject Student Teaching II *Units: 5*
- • TED 582 - Multiple Subject Intern Teaching I *Units: 5*
- • TED 583 - Multiple Subject Intern Teaching II *Units: 5*
- • TED 585 - Single Subject Field Placement I *Units: 5*

- • TED 586 - Single Subject Field Placement II *Units: 5*
- • TED 587 - Single Subject Intern Teaching I *Units: 5*
- • TED 588 - Single Subject Intern Teaching II *Units: 5*

Minor

Early Childhood Education Minor

Minor Requirements

Students will take the following 16 units to complete the Early Childhood Education Minor:

- TED 470 - Early Childhood Education: Integrated Language & Literacy Development *Units: 3*
- TED 471 - Early Childhood Education: Integrated Math and Science *Units: 3*
- TED 472 - Early Childhood Education: Integrated Arts and Social Studies *Units: 3*
- TED 473 - Early Childhood Education: Inclusive Practices *Units: 3*
- TED 474 - Early Childhood Education: Professional Seminar and Practicum *Units: 4*

Department Courses Listed by Course Type

Teacher Education Courses

Department of Teacher Education

Go to information for this department.

Courses

Education: Interdisciplinary - Graduate

- • EDUI 610 - The Web as an Interactive Educational Tool *Units: 4*
- • EDUI 620 - Theory and Design of E-Learning *Units: 4*
- • EDUI 630 - Math, Science and Technology *Units: 4*
- • EDUI 640 - Research in Educational Technology *Units: 4*
- • EDUI 650 - Mobile Application Development *Units: 4*
- • EDUI 660 - Digital Graphics *Units: 4*
- • EDUI 670 - Principles of Instructional Design *Units: 4*
- • EDUI 680 - Current Technologies *Units: 2*
- • EDUI 690 - Independent Study *Units: 1-3*
- • EDUI 691 - University Thesis *Units: 1-4*
- • EDUI 692 - Comprehensive Examination Preparation *Units: 2*
- • EDUI 693 - Master's Project *Units: 4*
- • EDUI 695 - Educational Technology Internship *Units: 4*
- • EDUI 697 - Issues in Education Interdisciplinary Studies *Units: 3*

- • EDUI 699 - Department Thesis *Units: 4*

Education: Online Teaching and Learning

- • OTL 601 - Introduction to Online Teaching and Learning *Units: 3*
- • OTL 602 - Instructional Design Models for Online Learning *Units: 3*
- • OTL 603 - Technology Tools for Online Instruction *Units: 3*
- • OTL 604 - Designing Curriculum for Online Instruction *Units: 3*
- • OTL 605 - Educational Planning and Development for Online Programs *Units: 3*
- • OTL 606 - Research in Online Teaching and Learning *Units: 3*
- • OTL 607 - History and Culture of Online Learning Communities *Units: 3*
- • OTL 672 - Content Development for Online Learning *Units: 3*
- • OTL 673 - Supervising and Evaluating Online Teaching *Units: 3*
- • OTL 674 - Current Issues in Online Learning *Units: 3*
- • OTL 680 - Building the Online Environment *Units: 3*
- • OTL 681 - Creating Digital Media for Online Instruction *Units: 3*
- • OTL 682 - Designing and Implementing User Interfaces for Online Instruction *Units: 3*
- • OTL 683 - Providing Interactivity in the Online Environment *Units: 3*
- • OTL 693 - Capstone Project *Units: 3*

Teacher Education

- • TED 301 - Introduction to Education *Units: 3*
- • TED 302 - Introduction to Teaching *Units: 3*
- • TED 398 - Internship *Units: 1-3*
- • TED 420 - Art Skills for Teachers *Units: 3*
- • TED 425 - Arts Integration for Teachers *Units: 3*
- • TED 470 - Early Childhood Education: Integrated Language & Literacy Development *Units: 3*
- • TED 471 - Early Childhood Education: Integrated Math and Science *Units: 3*
- • TED 472 - Early Childhood Education: Integrated Arts and Social Studies *Units: 3*
- • TED 473 - Early Childhood Education: Inclusive Practices *Units: 3*
- • TED 474 - Early Childhood Education: Professional Seminar and Practicum *Units: 4*
- • TED 490 - Independent Study *Units: 1-4*
- • TED 497 - Issues in Teacher Education *Units: 3*

Teacher Education: Graduate

- • TED 535 - History Social Studies III: Instructional Methods in a Single Subject Classroom *Units: 3*
- • TED 600 - Introduction to Graduate Studies *Units: 1*
- • TED 601 - Professional Research Seminar I *Units: 1*
- • TED 602 - Professional Research Seminar II *Units: 1*
- • TED 603 - Professional Research Seminar III *Units: 1*
- • TED 611 - Reading and Synthesizing Research in Education *Units: 3*
- • TED 612 - Understanding Design and Planning Research in Education *Units: 3*
- • TED 613 - Implementing and Analyzing Research in P-12 *Units: 3*
- • TED 620 - Advanced Studies in Mathematics Education *Units: 3*
- • TED 621 - Advanced Studies in Science Education *Units: 3*
- • TED 622 - Advanced Studies in Expository Reading and Writing *Units: 3*
- • TED 623 - Advanced Studies in Methods for English Language Learners *Units: 3*
- • TED 624 - Advanced Integrated Arts for All Teachers *Units: 3*
- • TED 625 - Teachers as Agents of Change *Units: 3*
- • TED 626 - Advanced Studies in Curriculum and Instruction *Units: 3*

- • TED 627 - Advanced Educational Psychology *Units: 3*
- • TED 630 - Advanced Language & Literacy Development in Early Childhood Education *Units: 4*
- • TED 631 - Advanced Integrated Math & Science in Early Childhood Education *Units: 3*
- • TED 632 - Advanced Integrated Arts & Social Studies in Early Childhood Education *Units: 3*
- • TED 633 - Advanced Special Education Practices in Early Childhood Education *Units: 3*
- • TED 634 - Professional Leadership in Early Childhood Education *Units: 2*
- • TED 635 - Field Based Practicum in Early Childhood Education *Units: 2*
- • TED 660 - Literacy Research and Methods *Units: 3*
- • TED 661 - Reading Comprehension Research and Methods *Units: 2*
- • TED 662 - Culture of Literacy: Focus on Diversity *Units: 2*
- • TED 663 - Literacy Assessment *Units: 3*
- • TED 664 - Literacy Intervention *Units: 3*
- • TED 670 - The Science of Reading Foundations *Units: 3*
- • TED 671 - Early Literacy Foundations *Units: 3*
- • TED 672 - Secondary Literacy Foundations *Units: 3*
- • TED 687 - Reading Research & Evaluation *Units: 3*
- • TED 688 - Research in Education *Units: 1*
- • TED 690 - Independent Study *Units: 1-3*
- • TED 691 - University Thesis *Units: 1-4*
- • TED 692 - Comprehensive Examination Preparation *Units: 2*
- • TED 693 - Master's Project *Units: 3*
- • TED 695 - Practicum *Units: 1*
- • TED 697 - Issues in Teacher Education *Units: 1-4*
- • TED 698 - Internship *Units: 1-3*
- • TED 699 - Department Thesis *Units: 1-4*

Teacher Education: Post-Baccalaureate

- • TED 500 - Foundations of Multiple Subject Education *Units: 4*
- • TED 501 - Introduction to Teaching Emergent Bilinguals *Units: 1*
- • TED 502 - Inclusive Teaching Practices in a Multiple Subject Classroom *Units: 3*
- • TED 503 - Equitable Teaching Practices in a Multiple Subject Classroom *Units: 3*
- • TED 504 - Introduction to Teaching Special Populations *Units: 1*
- • TED 505 - Teaching English Learners in the Multiple Subject Classroom *Units: 3*
- • TED 507 - Technology in the Multiple Subject Classroom *Units: 2*
- • TED 508 - Curriculum & Instruction: Reading *Units: 3*
- • TED 509 - Curriculum & Instruction: Language Arts and Social Studies *Units: 4*
- • TED 510 - Curriculum & Instruction: Mathematics in a Multiple Subject Classroom *Units: 3*
- • TED 511 - Curriculum & Instruction: Visual & Performing Arts *Units: 2*
- • TED 512 - Curriculum & Instruction: Science in the Multiple Subject Classroom *Units: 3*
- • TED 513 - Curriculum & Instruction: Health and Physical Education *Units: 2*
- • TED 520 - Foundations of Single Subject Education *Units: 4*
- • TED 521 - Content Literacy for All Learners *Units: 4*
- • TED 522 - Introduction to Teaching Emergent Bilinguals *Units: 1*
- • TED 523 - Inclusive Teaching Practices in a Single Subject Classroom A *Units: 3*
- • TED 524 - Inclusive Teaching Practices in a Single Subject Classroom B *Units: 3*
- • TED 525 - Teaching Special Education Students in a Single Subject Classroom *Units: 1*
- • TED 528 - Technology in the Single Subject Classroom *Units: 2*
- • TED 529 - Professional Responsibilities in Education *Units: 3*

- • TED 530 - English I: Instructional Methods in a Single Subject Classroom *Units: 3*
- • TED 531 - English II: Instructional Methods in a Single Subject Classroom *Units: 3*
- • TED 532 - English III: Instructional Methods in a Single Subject Classroom *Units: 3*
- • TED 533 - Historical Social Studies I: Instructional Methods in a Single Subject Classroom *Units: 3*
- • TED 534 - History Social Studies II: Instructional Methods in a Single Subject Classroom *Units: 3*
- • TED 536 - Science I: Instructional Methods in a Single Subject Classroom *Units: 3*
- • TED 537 - Science II: Instructional Methods in a Single Subject Classroom *Units: 3*
- • TED 538 - Science III: Instructional Methods in a Single Subject Classroom *Units: 3*
- • TED 539 - Mathematics I: Instructional Methods in a Single Subject Classroom *Units: 3*
- • TED 540 - Mathematics II: Instructional Methods in a Single Subject Classroom *Units: 3*
- • TED 541 - Mathematics III: Instructional Methods in a Single Subject Classroom *Units: 3*
- • TED 542 - Visual Arts I: Instructional Methods in a Single Subject Classroom *Units: 3*
- • TED 543 - Visual Arts II: Instructional Methods in a Single Subject Classroom *Units: 3*
- • TED 544 - Visual Arts III: Instructional Methods in a Single Subject Classroom *Units: 3*
- • TED 545 - Music I: Instructional Methods in a Single Subject Classroom *Units: 3*
- • TED 546 - Music II: Instructional Methods in a Single Subject Classroom *Units: 3*
- • TED 547 - Music III: Instructional Methods in a Single Subject Classroom *Units: 3*
- • TED 548 - Physical Education I- Instructional Methods in a Single Subject Classroom *Units: 3*
- • TED 549 - Physical Education II- Instructional Methods in a Single Subject Classroom *Units: 3*
- • TED 550 - Physical Education III - Instructional Methods in a Single Subject Classroom *Units: 3*
- • TED 551 - Spanish I- Instructional Methods in a Single Subject Classroom *Units: 3*
- • TED 552 - Spanish II: Instructional Methods in a Single Subject Classroom *Units: 3*
- • TED 553 - Spanish III - Instructional Methods in a Single Subject Classroom *Units: 3*
- • TED 554 - French I - Instructional Methods in a Single Subject Classroom *Units: 3*
- • TED 555 - French II - Instructional Methods in a Single Subject Classroom *Units: 3*
- • TED 556 - French III - Instructional Methods in a Single Subject Classroom *Units: 3*
- • TED 557 - Hindi I: Instructional Methods in a Single Subject Classroom *Units: 3*
- • TED 558 - Hindi II: Instructional Methods in a Single Subject Classroom *Units: 3*
- • TED 559 - Hindi III: Instructional Methods in a Single Subject Classroom *Units: 3*
- • TED 560 - Chinese I: Instructional Methods in a Single Subject Classroom *Units: 3*
- • TED 561 - Chinese II: Instructional Methods in a Single Subject Classroom *Units: 3*
- • TED 562 - Chinese III: Instructional Methods in a Single Subject Classroom *Units: 3*
- • TED 570 - Multiple Subject Fieldwork Seminar I *Units: 1*
- • TED 571 - Multiple Subject Fieldwork Seminar II *Units: 1*
- • TED 575 - Single Subject Fieldwork Seminar I *Units: 1*
- • TED 576 - Single Subject Fieldwork Seminar II *Units: 1*
- • TED 580 - Multiple Subject Student Teaching I *Units: 4*
- • TED 581 - Multiple Subject Student Teaching II *Units: 5*
- • TED 582 - Multiple Subject Intern Teaching I *Units: 5*
- • TED 583 - Multiple Subject Intern Teaching II *Units: 5*
- • TED 585 - Single Subject Field Placement I *Units: 5*
- • TED 586 - Single Subject Field Placement II *Units: 5*
- • TED 587 - Single Subject Intern Teaching I *Units: 5*
- • TED 588 - Single Subject Intern Teaching II *Units: 5*

Certificate

Educational Technology Certificate

Certificate Requirements (10-12 units)

The Graduate Certificate in Educational Technology is designed for educators, e-learning developers, and industry technologists. The program combines instructional design theories with a knowledge of emerging technologies. The program advocates lifelong learning that allows students to nurture their personal and professional growth. The arenas in which Educational Technology Certificate graduates will be active include school districts, county offices of education, community colleges, the high tech industry as an e-learning developer, and the field of instructional design.

Our students earn a graduate certificate to gain or enhance employment as an educational technologist, instructional designers, a curriculum specialist, community college instructors, school district technology director and technology trainer. Certificate holders also teach more effectively using educational technologies in the classroom. Finally, a certificate allows the transfer of 9 units to the Master's in Educational Technology.

Admissions Requirements

- Students must demonstrate knowledge and application of various programming languages, or they must have experience with Web-based instruction. Basic knowledge of digital technologies and HTML is required.
- Advanced proficiency in one platform (e.g., Macintosh, Windows, UNIX) is also required. Students must maintain competency in technology as long as they are graduate students in the program.
- Candidates must hold a baccalaureate degree from an accredited institution.
- Candidates must have earned a 3.0 Grade Point Average (GPA) in all upper division or post baccalaureate coursework.
- If a candidate has a baccalaureate degree from out of the country, he/she must have his/her transcripts evaluated by the International Graduate Student Admissions Office.
- Candidates must have met the University Writing Skills Requirement (UWSR). For information about meeting the UWSR, see the Testing Office website at www.csueastbay/testing or call 510.885.3661.
- The "CR/NC" grade option in any course applied to a certificate program must be approved in advance by the Graduate Coordinator.

Required Courses

The following 8 units are required:

- EDUI 610 - The Web as an Interactive Educational Tool *Units: 4*
- EDUI 620 - Theory and Design of E-Learning *Units: 4*

Elective Courses

Choose one (1) of the following courses for 2-4 units:

- EDUI 630 - Math, Science and Technology *Units: 4*
- EDUI 650 - Mobile Application Development *Units: 4*
- EDUI 660 - Digital Graphics *Units: 4*

- EDUI 670 - Principles of Instructional Design *Units: 4*
- EDUI 680 - Current Technologies *Units: 2*

Department Courses Listed by Course Type

Teacher Education Courses

Department of Teacher Education

Go to information for this department.

Courses

Education: Interdisciplinary - Graduate

- • EDUI 610 - The Web as an Interactive Educational Tool *Units: 4*
- • EDUI 620 - Theory and Design of E-Learning *Units: 4*
- • EDUI 630 - Math, Science and Technology *Units: 4*
- • EDUI 640 - Research in Educational Technology *Units: 4*
- • EDUI 650 - Mobile Application Development *Units: 4*
- • EDUI 660 - Digital Graphics *Units: 4*
- • EDUI 670 - Principles of Instructional Design *Units: 4*
- • EDUI 680 - Current Technologies *Units: 2*
- • EDUI 690 - Independent Study *Units: 1-3*
- • EDUI 691 - University Thesis *Units: 1-4*
- • EDUI 692 - Comprehensive Examination Preparation *Units: 2*
- • EDUI 693 - Master's Project *Units: 4*
- • EDUI 695 - Educational Technology Internship *Units: 4*
- • EDUI 697 - Issues in Education Interdisciplinary Studies *Units: 3*
- • EDUI 699 - Department Thesis *Units: 4*

Education: Online Teaching and Learning

- • OTL 601 - Introduction to Online Teaching and Learning *Units: 3*
- • OTL 602 - Instructional Design Models for Online Learning *Units: 3*
- • OTL 603 - Technology Tools for Online Instruction *Units: 3*
- • OTL 604 - Designing Curriculum for Online Instruction *Units: 3*
- • OTL 605 - Educational Planning and Development for Online Programs *Units: 3*
- • OTL 606 - Research in Online Teaching and Learning *Units: 3*
- • OTL 607 - History and Culture of Online Learning Communities *Units: 3*
- • OTL 672 - Content Development for Online Learning *Units: 3*
- • OTL 673 - Supervising and Evaluating Online Teaching *Units: 3*
- • OTL 674 - Current Issues in Online Learning *Units: 3*
- • OTL 680 - Building the Online Environment *Units: 3*
- • OTL 681 - Creating Digital Media for Online Instruction *Units: 3*
- • OTL 682 - Designing and Implementing User Interfaces for Online Instruction *Units: 3*
- • OTL 683 - Providing Interactivity in the Online Environment *Units: 3*
- • OTL 693 - Capstone Project *Units: 3*

Teacher Education

- • TED 301 - Introduction to Education *Units: 3*
- • TED 302 - Introduction to Teaching *Units: 3*
- • TED 398 - Internship *Units: 1-3*
- • TED 420 - Art Skills for Teachers *Units: 3*
- • TED 425 - Arts Integration for Teachers *Units: 3*
- • TED 470 - Early Childhood Education: Integrated Language & Literacy Development *Units: 3*
- • TED 471 - Early Childhood Education: Integrated Math and Science *Units: 3*
- • TED 472 - Early Childhood Education: Integrated Arts and Social Studies *Units: 3*
- • TED 473 - Early Childhood Education: Inclusive Practices *Units: 3*
- • TED 474 - Early Childhood Education: Professional Seminar and Practicum *Units: 4*
- • TED 490 - Independent Study *Units: 1-4*
- • TED 497 - Issues in Teacher Education *Units: 3*

Teacher Education: Graduate

- • TED 535 - History Social Studies III: Instructional Methods in a Single Subject Classroom *Units: 3*
- • TED 600 - Introduction to Graduate Studies *Units: 1*
- • TED 601 - Professional Research Seminar I *Units: 1*
- • TED 602 - Professional Research Seminar II *Units: 1*
- • TED 603 - Professional Research Seminar III *Units: 1*
- • TED 611 - Reading and Synthesizing Research in Education *Units: 3*
- • TED 612 - Understanding Design and Planning Research in Education *Units: 3*
- • TED 613 - Implementing and Analyzing Research in P-12 *Units: 3*
- • TED 620 - Advanced Studies in Mathematics Education *Units: 3*
- • TED 621 - Advanced Studies in Science Education *Units: 3*
- • TED 622 - Advanced Studies in Expository Reading and Writing *Units: 3*
- • TED 623 - Advanced Studies in Methods for English Language Learners *Units: 3*
- • TED 624 - Advanced Integrated Arts for All Teachers *Units: 3*
- • TED 625 - Teachers as Agents of Change *Units: 3*
- • TED 626 - Advanced Studies in Curriculum and Instruction *Units: 3*
- • TED 627 - Advanced Educational Psychology *Units: 3*
- • TED 630 - Advanced Language & Literacy Development in Early Childhood Education *Units: 4*
- • TED 631 - Advanced Integrated Math & Science in Early Childhood Education *Units: 3*
- • TED 632 - Advanced Integrated Arts & Social Studies in Early Childhood Education *Units: 3*
- • TED 633 - Advanced Special Education Practices in Early Childhood Education *Units: 3*
- • TED 634 - Professional Leadership in Early Childhood Education *Units: 2*
- • TED 635 - Field Based Practicum in Early Childhood Education *Units: 2*
- • TED 660 - Literacy Research and Methods *Units: 3*
- • TED 661 - Reading Comprehension Research and Methods *Units: 2*
- • TED 662 - Culture of Literacy: Focus on Diversity *Units: 2*
- • TED 663 - Literacy Assessment *Units: 3*
- • TED 664 - Literacy Intervention *Units: 3*
- • TED 670 - The Science of Reading Foundations *Units: 3*
- • TED 671 - Early Literacy Foundations *Units: 3*
- • TED 672 - Secondary Literacy Foundations *Units: 3*
- • TED 687 - Reading Research & Evaluation *Units: 3*
- • TED 688 - Research in Education *Units: 1*
- • TED 690 - Independent Study *Units: 1-3*
- • TED 691 - University Thesis *Units: 1-4*

- • TED 692 - Comprehensive Examination Preparation *Units: 2*
- • TED 693 - Master's Project *Units: 3*
- • TED 695 - Practicum *Units: 1*
- • TED 697 - Issues in Teacher Education *Units: 1-4*
- • TED 698 - Internship *Units: 1-3*
- • TED 699 - Department Thesis *Units: 1-4*

Teacher Education: Post-Baccalaureate

- • TED 500 - Foundations of Multiple Subject Education *Units: 4*
- • TED 501 - Introduction to Teaching Emergent Bilinguals *Units: 1*
- • TED 502 - Inclusive Teaching Practices in a Multiple Subject Classroom *Units: 3*
- • TED 503 - Equitable Teaching Practices in a Multiple Subject Classroom *Units: 3*
- • TED 504 - Introduction to Teaching Special Populations *Units: 1*
- • TED 505 - Teaching English Learners in the Multiple Subject Classroom *Units: 3*
- • TED 507 - Technology in the Multiple Subject Classroom *Units: 2*
- • TED 508 - Curriculum & Instruction: Reading *Units: 3*
- • TED 509 - Curriculum & Instruction: Language Arts and Social Studies *Units: 4*
- • TED 510 - Curriculum & Instruction: Mathematics in a Multiple Subject Classroom *Units: 3*
- • TED 511 - Curriculum & Instruction: Visual & Performing Arts *Units: 2*
- • TED 512 - Curriculum & Instruction: Science in the Multiple Subject Classroom *Units: 3*
- • TED 513 - Curriculum & Instruction: Health and Physical Education *Units: 2*
- • TED 520 - Foundations of Single Subject Education *Units: 4*
- • TED 521 - Content Literacy for All Learners *Units: 4*
- • TED 522 - Introduction to Teaching Emergent Bilinguals *Units: 1*
- • TED 523 - Inclusive Teaching Practices in a Single Subject Classroom A *Units: 3*
- • TED 524 - Inclusive Teaching Practices in a Single Subject Classroom B *Units: 3*
- • TED 525 - Teaching Special Education Students in a Single Subject Classroom *Units: 1*
- • TED 528 - Technology in the Single Subject Classroom *Units: 2*
- • TED 529 - Professional Responsibilities in Education *Units: 3*
- • TED 530 - English I: Instructional Methods in a Single Subject Classroom *Units: 3*
- • TED 531 - English II: Instructional Methods in a Single Subject Classroom *Units: 3*
- • TED 532 - English III: Instructional Methods in a Single Subject Classroom *Units: 3*
- • TED 533 - Historical Social Studies I: Instructional Methods in a Single Subject Classroom *Units: 3*
- • TED 534 - History Social Studies II: Instructional Methods in a Single Subject Classroom *Units: 3*
- • TED 536 - Science I: Instructional Methods in a Single Subject Classroom *Units: 3*
- • TED 537 - Science II: Instructional Methods in a Single Subject Classroom *Units: 3*
- • TED 538 - Science III: Instructional Methods in a Single Subject Classroom *Units: 3*
- • TED 539 - Mathematics I: Instructional Methods in a Single Subject Classroom *Units: 3*
- • TED 540 - Mathematics II: Instructional Methods in a Single Subject Classroom *Units: 3*
- • TED 541 - Mathematics III: Instructional Methods in a Single Subject Classroom *Units: 3*
- • TED 542 - Visual Arts I: Instructional Methods in a Single Subject Classroom *Units: 3*
- • TED 543 - Visual Arts II: Instructional Methods in a Single Subject Classroom *Units: 3*
- • TED 544 - Visual Arts III: Instructional Methods in a Single Subject Classroom *Units: 3*
- • TED 545 - Music I: Instructional Methods in a Single Subject Classroom *Units: 3*
- • TED 546 - Music II: Instructional Methods in a Single Subject Classroom *Units: 3*
- • TED 547 - Music III: Instructional Methods in a Single Subject Classroom *Units: 3*
- • TED 548 - Physical Education I- Instructional Methods in a Single Subject Classroom *Units: 3*
- • TED 549 - Physical Education II- Instructional Methods in a Single Subject Classroom *Units: 3*

- • TED 550 - Physical Education III - Instructional Methods in a Single Subject Classroom *Units: 3*
- • TED 551 - Spanish I- Instructional Methods in a Single Subject Classroom *Units: 3*
- • TED 552 - Spanish II: Instructional Methods in a Single Subject Classroom *Units: 3*
- • TED 553 - Spanish III - Instructional Methods in a Single Subject Classroom *Units: 3*
- • TED 554 - French I - Instructional Methods in a Single Subject Classroom *Units: 3*
- • TED 555 - French II - Instructional Methods in a Single Subject Classroom *Units: 3*
- • TED 556 - French III - Instructional Methods in a Single Subject Classroom *Units: 3*
- • TED 557 - Hindi I: Instructional Methods in a Single Subject Classroom *Units: 3*
- • TED 558 - Hindi II: Instructional Methods in a Single Subject Classroom *Units: 3*
- • TED 559 - Hindi III: Instructional Methods in a Single Subject Classroom *Units: 3*
- • TED 560 - Chinese I: Instructional Methods in a Single Subject Classroom *Units: 3*
- • TED 561 - Chinese II: Instructional Methods in a Single Subject Classroom *Units: 3*
- • TED 562 - Chinese III: Instructional Methods in a Single Subject Classroom *Units: 3*
- • TED 570 - Multiple Subject Fieldwork Seminar I *Units: 1*
- • TED 571 - Multiple Subject Fieldwork Seminar II *Units: 1*
- • TED 575 - Single Subject Fieldwork Seminar I *Units: 1*
- • TED 576 - Single Subject Fieldwork Seminar II *Units: 1*
- • TED 580 - Multiple Subject Student Teaching I *Units: 4*
- • TED 581 - Multiple Subject Student Teaching II *Units: 5*
- • TED 582 - Multiple Subject Intern Teaching I *Units: 5*
- • TED 583 - Multiple Subject Intern Teaching II *Units: 5*
- • TED 585 - Single Subject Field Placement I *Units: 5*
- • TED 586 - Single Subject Field Placement II *Units: 5*
- • TED 587 - Single Subject Intern Teaching I *Units: 5*
- • TED 588 - Single Subject Intern Teaching II *Units: 5*

Department of Theatre and Dance

Department Office located in the 2nd Floor of the Robinson Hall building, Room 220

Open hours 8:00 a.m. - 5:00 p.m., Monday through Friday

Dept. Phone: (510) 885-3118

Faculty

Professor Emeritus

Thomas C. Hird, M.F.A. University of California, Los Angeles

Professors

Darryl V. Jones (Chair), M.F.A. The Boston University School of Theatre Arts

Ann Fajilan, M.F.A. University of California, Davis

Nina O. Haft, M.F.A. University of Wisconsin

Rhoda Helfman Kaufman, Ph.D. University of California, Berkeley

Marc Jacobs, M.F.A. California State University, Long Beach

Eric Kupers, M.F.A. University of California, Davis

Assistant Professor

Richard Olmsted, M.F.A. Carnegie Mellon University

Lecturers

Ulises Alcala, M.F.A. University of Massachusetts, Amherst

Laura Ellis, M.F.A. Mills College

Kimiko Guthrie, M.F.A. Mills College

Mission Statement

Theatre and Dance, as performing arts, provide a spark that transforms a person into a lifelong student. Across the campus we offer opportunities for participation both in production and in critical examination that help students to discover, accept, and express themselves as active, enlightened persons, and to know and appreciate the work and values of others. To succeed in their performances, students master world history as well as the theories of art and esthetics by use of the everyday practices of the liberal arts, including research, writing, figuring, reasoning, and experimentation. They learn practical, usable skills. Students experience the problems of making choices while on stage and off. They learn to recognize the connection between art and life, as well as to discover their own capacities to make choices as citizens, as creators of art, and as directors of their lives.

About the Department

Use our university website link to learn more about what the Theatre and Dance Department has to offer.

- School of Arts and Media
- Degree Roadmaps
- Auditions
- Performance Fusion
- Performance Season
- Anyone Can Get Involved (open casting)
- Alumni
- Social Media Links
- And more...

Bachelor

Theatre Arts, B.A.: Dance and Inclusive Performance Concentration

Theatre Arts, B.A. Program (120 units)

Program Description

Through inclusive and rigorous creative inquiry, the Department of Theatre and Dance provides comprehensive training for performance, creativity, reflection, diversity, collaboration, mentorship, community engagement, and social justice.

Through a combination of core classes with a concentration, the program provides comprehensive pre-professional training in the areas of performance (Acting, Dance, Inclusive Performance (Applied Social Justice), and Musical Theatre) and production (Stage Technology and Design). Our primary goal is to develop artists whose performance skills and creativity are supported by a firm background in history, literature, and aesthetics. In an environment designed to encourage creativity and self-expression, students perform regularly in a variety of theatre and dance productions. The culmination requirement offers an opportunity to direct, choreograph, perform, write, intern, or design.

Theatre Arts program encourages majors to acquire a range of skills to expand their career options. Many have entered advanced studies in nationally recognized universities and conservatories. Some have chosen careers in teaching, while others have gone directly into theatre or dance performance. Alumni perform on professional stages around the world, including Broadway and Hollywood, where they have won Tony and Emmy Awards, as well as other professional recognitions. Employers in business and public service professions desire Theatre Arts graduates for their team skills, their imaginative approach to problems, and their ability to communicate creatively.

Program Learning Outcomes

Students graduating with a B.A. in Theatre Arts from Cal State East Bay will be able to:

- ...Perform for audiences, on stage or in other arenas and careers.
- ...Create performance that presents human issues in inclusive, exciting, original ways.
- ...Reflect on historical and contemporary works of theatre and dance from diverse cultures.
- ...Engage individuals and build community through meaningful theatre and dance experiences.

Career Opportunities

Actor/Actress • Box Office Manager • Business Agent • Choreographer • College Student Services Manager • Comedian • Corporate Officer • Costume Designer • Costume/Wardrobe Technician • Dancer • Director • Drama or Dance Teacher/Professor • Dramaturg • House Manager • Lighting Technician • Make-Up Artist/Specialist • Non-profit Manager • Playwright • Producer • Recreation Supervisor • Sales/Marketing Specialist • Set Decorator • Set Designer • Sound Technician • Stage Manager • Theatre Critic • Theatre Technician • Theatre Manager

Features

The Department of Theatre and Dance produces approximately 5-8 plays and dance concerts during the year. The selection of plays exposes students to acting, dance, design, directing, singing, stage management, and technical theatre suitable to a wide variety of styles, periods, and genres from Shakespeare to American Realism and from Greek Tragedy to Modern Drama.

The department features ensemble groups in the areas of Acting, Dance, Inclusive Performance, Musical Theatre, and Stage Technology/Design, providing access to a varied and challenging performance schedule. Sixteen department productions have toured to four European countries. Annually our tours travel in-state and across the country.

The department is fortunate to have excellent facilities including the 450 seat University Theatre; a scene shop equipped for traditional carpentry and MIG welding, including a full paint frame; a costume shop with ten sewing stations; a sixteen-station design/drafting studio with a separate digital lab; two theatre studio classrooms; green room; make-up room; dressing rooms with lockers and showers; and, a spacious Dance Studio.

Degree Requirements Unit-Outline

- A baccalaureate of arts degree requires a total of 120 units:
 - The major requirements consists of 50-53 units
 - General Education (GE) & Graduation Requirements (GR) consists of 57 units;
 - Free Electives may consist of 10-13 units (*actual number of free elective units may depend on GE/GR units*).
- Note: It may be possible to double-count units within the graduation requirements or that a course may satisfy both a graduation requirement and a major requirement. Students should contact their program and AACE advisors for information.*

Theatre Arts Major Requirements (50-53 units)

Core Coursework

Students must take all of the following courses for 17 units:

- DANC 362 - Inclusive Interdisciplinary Ensemble *Units: 2*
- THEA 100 - Theatre: A Spotlight on Life *Units: 3 ; G.E./G.R. Area: C2*
- THEA 151 - Fundamentals of Acting *Units: 3*
- THEA 461 - Scenery, Lighting and Sound Design *Units: 3*
- THEA 462 - Costume and Makeup Design *Units: 3*
- THEA 432 - Exploration of Dramatic Literature Themes *Units: 3 ; G.E./G.R. Area: C4*

Core Performance Coursework

Students must complete a minimum of 8 units from the following performance courses:

- DANC 360 - Inclusive Interdisciplinary Ensemble Performance *Units: 2*
- DANC 370 - Dance Ensemble Performance *Units: 2*
- THEA 350 - Theatre Performance *Units: 2*
- THEA 370 - Musical Theater Performance *Units: 2*
- THEA 381 - Production Support: Stage, Lights and Sound Shop or Crew *Units: 2*
- THEA 382 - Production Support: Costume and Makeup Shop or Crew *Units: 2*

Concentrations

Theatre Arts majors are required to choose a concentration to fulfill their major requirements. Choose one (1) of the following:

- Theatre Arts, B.A.: Dance and Inclusive Performance Concentration
- Theatre Arts, B.A.: Stage Technology and Design Concentration
- Theatre Arts, B.A.: Theatre Performance: Acting and Musical Theatre Concentration

Capstone Requirement

Students must take one of the following CAPSTONE courses for 3 units to complete the major.

- DANC 493 - Dance Projects Capstone *Units: 3*
- THEA 493 - Theatre Projects Capstone *Units: 3*

Dance and Inclusive Performance Concentration

The Dance and Inclusive Performance concentration is 23-24 units. In addition to the concentration core coursework, students must choose either the Dance Track or Inclusive Performance Track to complete the concentration requirements.

Concentration Core

All of the following 13 units are required as outlined:

Students must take the following STAGE TECHNIQUE courses:

- THEA 111 - Costume Techniques *Units: 1*
- THEA 113 - Stage Lighting Techniques *Units: 1*

Complete two (2) from the following FIRST OR SECOND LEVEL dance courses:

- DANC 110 - Contemporary Ballet I *Units: 1 ; G.E./G.R. Area: E*
- DANC 113 - Jazz Dance I *Units: 1 ; G.E./G.R. Area: E*
- DANC 115 - Modern Dance I *Units: 1 ; G.E./G.R. Area: E*
- DANC 210 - Contemporary Ballet II *Units: 1 ; G.E./G.R. Area: E*
- DANC 211 - Hip Hop Dance II *Units: 1 ; G.E./G.R. Area: E*
- DANC 212 - African Dance *Units: 1 ; G.E./G.R. Area: E*
- DANC 213 - Jazz Dance II *Units: 1 ; G.E./G.R. Area: E*
- DANC 214 - Modern Jazz Dance II *Units: 1 ; G.E./G.R. Area: E*
- DANC 215 - Modern Dance II *Units: 1 ; G.E./G.R. Area: E*
- DANC 216 - Dance Partnering II *Units: 1 ; G.E./G.R. Area: E*
- DANC 217 - Musical Theater Dance *Units: 1 ; G.E./G.R. Area: E*

Students must take one (1) from the following DANCE HISTORY courses:

- DANC 233 - Street to Stage: History of Hip Hop Dance *Units: 3 ; G.E./G.R. Area: C2; Diversity*
- DANC 234 - Tap and Musical Theatre Dance on Stage and Film *Units: 3 ; G.E./G.R. Area: C1; Diversity*

Students must take all the following ENSEMBLE courses:

- DANC 362 - Inclusive Interdisciplinary Ensemble *Units: 2*
- DANC 371 - Dance Stage and Screen Ensemble *Units: 2*
- DANC 372 - Dance Creative Process Ensemble *Units: 2*

Dance Track

Students choosing the Dance Track will take 10 units as outlined to complete the concentration requirements:

Students must take two (2) SECOND-LEVEL dance technique courses:

- DANC 210 - Contemporary Ballet II *Units: 1 ; G.E./G.R. Area: E*
- DANC 211 - Hip Hop Dance II *Units: 1 ; G.E./G.R. Area: E*
- DANC 212 - African Dance *Units: 1 ; G.E./G.R. Area: E*
- DANC 213 - Jazz Dance II *Units: 1 ; G.E./G.R. Area: E*
- DANC 214 - Modern Jazz Dance II *Units: 1 ; G.E./G.R. Area: E*
- DANC 215 - Modern Dance II *Units: 1 ; G.E./G.R. Area: E*
- DANC 216 - Dance Partnering II *Units: 1 ; G.E./G.R. Area: E*
- DANC 217 - Musical Theater Dance *Units: 1 ; G.E./G.R. Area: E*

Students must take two (2) THIRD-LEVEL dance technique courses:

- DANC 311 - Hip Hop Dance III *Units: 1*
- DANC 314 - Modern Jazz Dance III *Units: 1*
- DANC 315 - Modern Dance III *Units: 1*
- DANC 316 - Advanced Dance Partnering *Units: 1*

Students must take one (1) DANCE HISTORY course:

- DANC 331 - Sex, Race, and Body Politics in Dance *Units: 3 ; G.E./G.R. Area: C4; Diversity*
- DANC 332 - World Dance and Cultures *Units: 3 ; G.E./G.R. Area: C4*

And students must take the following MOVEMENT course:

- DANC 401 - Movement Analysis *Units: 3 ; G.E./G.R. Area: C4*

Inclusive Performance Track

Students choosing the Inclusive Performance Track will take 10-11 units as outlined to complete the concentration requirements:

Students must take the following two (2) beginning STAGE TECHNIQUE courses:

- THEA 112 - Makeup Techniques *Units: 1*
- THEA 114 - Sound Production Techniques *Units: 1*

Students choose one (1) PERFORMANCE ANALYSIS course:

- DANC 345 - How to Watch Dance *Units: 3 ; G.E./G.R. Area: C4*
- THEA 345 - How to Watch Plays and Film *Units: 3 ; G.E./G.R. Area: C4*

Students must take a minimum of 5-6 units of METHODS and SUPPORT coursework:

- **DANC 331 - Sex, Race, and Body Politics in Dance** *Units: 3 ; G.E./G.R. Area: C4; Diversity*
- **THEA 150 - Improvisation for Life, Stage and Wellbeing** *Units: 2 ; G.E./G.R. Area: C1*
- **THEA 231 - Creating Theatre from Personal Experience** *Units: 3 ; G.E./G.R. Area: C1*
- **THEA 234 - Social Justice Theatre Ensemble** *Units: 2 ; G.E./G.R. Area: C2; Social Justice*
- **THEA 252 - Voice and Movement for Actors** *Units: 2*
- **THEA 254 - Acting and Diversity** *Units: 3 ; G.E./G.R. Area: C2; Diversity*
- **THEA 261 - Stage Management** *Units: 1*
- **THEA 331 - Solo and Devised Theatre Ensemble** *Units: 2*
- **THEA 361 - Scene Painting** *Units: 2*

Other Undergraduate Degree Requirements

In addition to major requirements, every student must also complete the University's baccalaureate requirements for graduation, which are described in the Requirements, Exams & Testing chapter of this catalog.

Department Courses Listed by Course Type

Theatre and Dance Courses

Department of Theatre and Dance

Go to information for this department.

Courses

Dance

- • **DANC 101 - Dance for All Bodies and Abilities** *Units: 3 ; G.E./G.R. Area: C1*
- • **DANC 102 - World Dance: Tradition and Change** *Units: 3 ; G.E./G.R. Area: C1*
- • **DANC 110 - Contemporary Ballet I** *Units: 1 ; G.E./G.R. Area: E*
- • **DANC 111 - Hip Hop Dance I** *Units: 1 ; G.E./G.R. Area: E*
- • **DANC 113 - Jazz Dance I** *Units: 1 ; G.E./G.R. Area: E*
- • **DANC 114 - Modern Jazz Dance I** *Units: 1 ; G.E./G.R. Area: E*
- • **DANC 115 - Modern Dance I** *Units: 1 ; G.E./G.R. Area: E*
- • **DANC 116 - Dance Partnering I** *Units: 1 ; G.E./G.R. Area: E*
- • **DANC 117 - Rhythm Tap Dance** *Units: 1 ; G.E./G.R. Area: E*
- • **DANC 210 - Contemporary Ballet II** *Units: 1 ; G.E./G.R. Area: E*
- • **DANC 211 - Hip Hop Dance II** *Units: 1 ; G.E./G.R. Area: E*
- • **DANC 212 - African Dance** *Units: 1 ; G.E./G.R. Area: E*
- • **DANC 213 - Jazz Dance II** *Units: 1 ; G.E./G.R. Area: E*
- • **DANC 214 - Modern Jazz Dance II** *Units: 1 ; G.E./G.R. Area: E*
- • **DANC 215 - Modern Dance II** *Units: 1 ; G.E./G.R. Area: E*
- • **DANC 216 - Dance Partnering II** *Units: 1 ; G.E./G.R. Area: E*

- • DANC 217 - Musical Theater Dance *Units: 1 ; G.E./G.R. Area: E*
- • DANC 233 - Street to Stage: History of Hip Hop Dance *Units: 3 ; G.E./G.R. Area: C2; Diversity*
- • DANC 234 - Tap and Musical Theatre Dance on Stage and Film *Units: 3 ; G.E./G.R. Area: C1;*

Diversity

- • DANC 273 - Dance on Camera *Units: 3 ; G.E./G.R. Area: C2*
- • DANC 311 - Hip Hop Dance III *Units: 1*
- • DANC 313 - Jazz Dance III *Units: 1*
- • DANC 314 - Modern Jazz Dance III *Units: 1*
- • DANC 315 - Modern Dance III *Units: 1*
- • DANC 316 - Advanced Dance Partnering *Units: 1*
- • DANC 331 - Sex, Race, and Body Politics in Dance *Units: 3 ; G.E./G.R. Area: C4; Diversity*
- • DANC 332 - World Dance and Cultures *Units: 3 ; G.E./G.R. Area: C4*
- • DANC 341 - Dance for Children *Units: 3 ; G.E./G.R. Area: C4*
- • DANC 342 - The Dance Experience *Units: 3*
- • DANC 345 - How to Watch Dance *Units: 3 ; G.E./G.R. Area: C4*
- • DANC 360 - Inclusive Interdisciplinary Ensemble Performance *Units: 2*
- • DANC 362 - Inclusive Interdisciplinary Ensemble *Units: 2*
- • DANC 370 - Dance Ensemble Performance *Units: 2*
- • DANC 371 - Dance Stage and Screen Ensemble *Units: 2*
- • DANC 372 - Dance Creative Process Ensemble *Units: 2*
- • DANC 401 - Movement Analysis *Units: 3 ; G.E./G.R. Area: C4*
- • DANC 402 - Dance Projects *Units: 2*
- • DANC 490 - Independent Study *Units: 1-4*
- • DANC 493 - Dance Projects Capstone *Units: 3*
- • DANC 497 - Issues in Dance *Units: 3*

Theatre Arts: Activity

- • THEA 150 - Improvisation for Life, Stage and Wellbeing *Units: 2 ; G.E./G.R. Area: C1*
- • THEA 151 - Fundamentals of Acting *Units: 3*
- • THEA 251 - Stage Voice and Classical Repertoire *Units: 2*
- • THEA 252 - Voice and Movement for Actors *Units: 2*
- • THEA 255 - Acting on Camera *Units: 3 ; G.E./G.R. Area: C1*
- • THEA 341 - Dramatic Activities for Children *Units: 3 ; G.E./G.R. Area: C4*
- • THEA 351 - Intermediate Acting *Units: 3*
- • THEA 371 - Musical Theatre Techniques *Units: 3*
- • THEA 372 - Musical Theatre Rehearsal *Units: 1*
- • THEA 493 - Theatre Projects Capstone *Units: 3*

Theatre Arts: Theatre

- • THEA 100 - Theatre: A Spotlight on Life *Units: 3 ; G.E./G.R. Area: C2*
- • THEA 101 - Doing The Right Thing: Social Justice Theatre *Units: 3 ; G.E./G.R. Area: C1; Social Justice*
- • THEA 102 - Asian American Theatre *Units: 3 ; G.E./G.R. Area: C2*
- • THEA 103 - Ancient Theatre *Units: 3 ; G.E./G.R. Area: C1*
- • THEA 110 - Discover Acting *Units: 3 ; G.E./G.R. Area: C1*
- • THEA 111 - Costume Techniques *Units: 1*
- • THEA 112 - Makeup Techniques *Units: 1*
- • THEA 113 - Stage Lighting Techniques *Units: 1*
- • THEA 114 - Sound Production Techniques *Units: 1*
- • THEA 231 - Creating Theatre from Personal Experience *Units: 3 ; G.E./G.R. Area: C1*

- • THEA 232 - Oral Interpretation of Literature *Units: 3 ; G.E./G.R. Area: C2*
- • THEA 233 - Pilipinix Culture: Theatre Ensemble *Units: 2 ; G.E./G.R. Area: C2; Diversity*
- • THEA 234 - Social Justice Theatre Ensemble *Units: 2 ; G.E./G.R. Area: C2; Social Justice*
- • THEA 241 - America on Stage *Units: 3 ; G.E./G.R. Area: C1*
- • THEA 242 - From Stage to Screen: Dramas and the Films They Inspired *Units: 3 ; G.E./G.R. Area: C1*
- • THEA 243 - What's so Funny? Comedic Genius Since the Sixties *Units: 3 ; G.E./G.R. Area: C1*
- • THEA 244 - The Genre of Horror *Units: 3 ; G.E./G.R. Area: C2*
- • THEA 245 - Secrets of Backstage Production *Units: 3 ; G.E./G.R. Area: C1*
- • THEA 246 - Women in Performance *Units: 3 ; G.E./G.R. Area: C1*
- • THEA 247 - Culture and Diversity *Units: 3 ; G.E./G.R. Area: C2*
- • THEA 254 - Acting and Diversity *Units: 3 ; G.E./G.R. Area: C2; Diversity*
- • THEA 260 - Architecture and Costume History *Units: 3 ; G.E./G.R. Area: C2*
- • THEA 261 - Stage Management *Units: 1*
- • THEA 262 - Pencil and Color Sketching *Units: 1*
- • THEA 263 - Wood and Metal Construction *Units: 2*
- • THEA 264 - Non-Western Costume *Units: 3 ; G.E./G.R. Area: C1*
- • THEA 265 - Fashion History and Design *Units: 3 ; G.E./G.R. Area: C2*
- • THEA 321 - History of Black Theatre *Units: 3 ; G.E./G.R. Area: C4*
- • THEA 322 - History of Musical Theatre *Units: 3 ; G.E./G.R. Area: C4*
- • THEA 323 - Shakespeare on Film *Units: 3 ; G.E./G.R. Area: C4*
- • THEA 331 - Solo and Devised Theatre Ensemble *Units: 2*
- • THEA 344 - Interpretation of Women's and Ethnic Literature *Units: 3 ; G.E./G.R. Area: C4; Diversity*
- • THEA 345 - How to Watch Plays and Film *Units: 3 ; G.E./G.R. Area: C4*
- • THEA 350 - Theatre Performance *Units: 2*
- • THEA 352 - Acting and Classical Repertoire *Units: 3*
- • THEA 359 - Directing *Units: 3*
- • THEA 360 - Technology and Design Studio *Units: 1*
- • THEA 361 - Scene Painting *Units: 2*
- • THEA 362 - Computer Aided Design and Model Making *Units: 2*
- • THEA 363 - Advanced Costume Construction *Units: 2*
- • THEA 365 - Masks and Specialized Makeup *Units: 2*
- • THEA 370 - Musical Theater Performance *Units: 2*
- • THEA 380 - Festival and Touring Participation *Units: 2*
- • THEA 381 - Production Support: Stage, Lights and Sound Shop or Crew *Units: 2*
- • THEA 382 - Production Support: Costume and Makeup Shop or Crew *Units: 2*
- • THEA 398 - Internship *Units: 1-3*
- • THEA 431 - Exploration of Dramatic Literature Characters *Units: 3 ; G.E./G.R. Area: C4*
- • THEA 432 - Exploration of Dramatic Literature Themes *Units: 3 ; G.E./G.R. Area: C4*
- • THEA 461 - Scenery, Lighting and Sound Design *Units: 3*
- • THEA 462 - Costume and Makeup Design *Units: 3*
- • THEA 490 - Independent Study *Units: 1-4*
- • THEA 497 - Issues in Dramatic Literature *Units: 3*

Theatre Arts, B.A.: Stage Technology and Design Concentration

Theatre Arts, B.A. Program (120 units)

Program Description

Through inclusive and rigorous creative inquiry, the Department of Theatre and Dance provides comprehensive training for performance, creativity, reflection, diversity, collaboration, mentorship, community engagement, and social justice.

Through a combination of core classes with a concentration, the program provides comprehensive pre-professional training in the areas of performance (Acting, Dance, Inclusive Performance (Applied Social Justice), and Musical Theatre) and production (Stage Technology and Design). Our primary goal is to develop artists whose performance skills and creativity are supported by a firm background in history, literature, and aesthetics. In an environment designed to encourage creativity and self-expression, students perform regularly in a variety of theatre and dance productions. The culmination requirement offers an opportunity to direct, choreograph, perform, write, intern, or design.

Theatre Arts program encourages majors to acquire a range of skills to expand their career options. Many have entered advanced studies in nationally recognized universities and conservatories. Some have chosen careers in teaching, while others have gone directly into theatre or dance performance. Alumni perform on professional stages around the world, including Broadway and Hollywood, where they have won Tony and Emmy Awards, as well as other professional recognitions. Employers in business and public service professions desire Theatre Arts graduates for their team skills, their imaginative approach to problems, and their ability to communicate creatively.

Program Learning Outcomes

Students graduating with a B.A. in Theatre Arts from Cal State East Bay will be able to:

- ...Perform for audiences, on stage or in other arenas and careers.
- ...Create performance that presents human issues in inclusive, exciting, original ways.
- ...Reflect on historical and contemporary works of theatre and dance from diverse cultures.
- ...Engage individuals and build community through meaningful theatre and dance experiences.

Career Opportunities

Actor/Actress • Box Office Manager • Business Agent • Choreographer • College Student Services Manager • Comedian • Corporate Officer • Costume Designer • Costume/Wardrobe Technician • Dancer • Director • Drama or Dance Teacher/Professor • Dramaturg • House Manager • Lighting Technician • Make-Up Artist/Specialist • Non-profit Manager • Playwright • Producer • Recreation Supervisor • Sales/Marketing Specialist • Set Decorator • Set Designer • Sound Technician • Stage Manager • Theatre Critic • Theatre Technician • Theatre Manager

Features

The Department of Theatre and Dance produces approximately 5-8 plays and dance concerts during the year. The selection of plays exposes students to acting, dance, design, directing, singing, stage management, and technical theatre suitable to a wide variety of styles, periods, and genres from Shakespeare to American Realism and from Greek Tragedy to Modern Drama.

The department features ensemble groups in the areas of Acting, Dance, Inclusive Performance, Musical Theatre, and Stage Technology/Design, providing access to a varied and challenging performance schedule. Sixteen department productions have toured to four European countries. Annually our tours travel in-state and across the country.

The department is fortunate to have excellent facilities including the 450 seat University Theatre; a scene shop equipped for traditional carpentry and MIG welding, including a full paint frame; a costume shop with ten sewing stations; a sixteen-station design/drafting studio with a separate digital lab; two theatre studio classrooms; green room; make-up room; dressing rooms with lockers and showers; and, a spacious Dance Studio.

Degree Requirements Unit-Outline

- A baccalaureate of arts degree requires a total of 120 units:
 - The major requirements consists of 50-53 units
 - General Education (GE) & Graduation Requirements (GR) consists of 57 units;
 - Free Electives may consist of 10-13 units (*actual number of free elective units may depend on GE/GR units*).
- Note: It may be possible to double-count units within the graduation requirements or that a course may satisfy both a graduation requirement and a major requirement. Students should contact their program and AACE advisors for information.*

Theatre Arts Major Requirements (50-53 units)

Core Coursework

Students must take all of the following courses for 17 units:

- DANC 362 - Inclusive Interdisciplinary Ensemble *Units: 2*
- THEA 100 - Theatre: A Spotlight on Life *Units: 3 ; G.E./G.R. Area: C2*
- THEA 151 - Fundamentals of Acting *Units: 3*
- THEA 461 - Scenery, Lighting and Sound Design *Units: 3*
- THEA 462 - Costume and Makeup Design *Units: 3*
- THEA 432 - Exploration of Dramatic Literature Themes *Units: 3 ; G.E./G.R. Area: C4*

Core Performance Coursework

Students must complete a minimum of 8 units from the following performance courses:

- DANC 360 - Inclusive Interdisciplinary Ensemble Performance *Units: 2*
- DANC 370 - Dance Ensemble Performance *Units: 2*
- THEA 350 - Theatre Performance *Units: 2*
- THEA 370 - Musical Theater Performance *Units: 2*
- THEA 381 - Production Support: Stage, Lights and Sound Shop or Crew *Units: 2*
- THEA 382 - Production Support: Costume and Makeup Shop or Crew *Units: 2*

Concentrations

Theatre Arts majors are required to choose a concentration to fulfill their major requirements. Choose one (1) of the following:

- Theatre Arts, B.A.: Dance and Inclusive Performance Concentration
- Theatre Arts, B.A.: Stage Technology and Design Concentration
- Theatre Arts, B.A.: Theatre Performance: Acting and Musical Theatre Concentration

Capstone Requirement

Students must take one of the following CAPSTONE courses for 3 units to complete the major.

- DANC 493 - Dance Projects Capstone *Units: 3*
- THEA 493 - Theatre Projects Capstone *Units: 3*

Stage Technology and Design Concentration

The Stage Technology and Design concentration is 22 units as outlined below:

Students must take all of the following 8 courses:

- THEA 111 - Costume Techniques *Units: 1*
- THEA 112 - Makeup Techniques *Units: 1*
- THEA 113 - Stage Lighting Techniques *Units: 1*
- THEA 114 - Sound Production Techniques *Units: 1*
- THEA 260 - Architecture and Costume History *Units: 3 ; G.E./G.R. Area: C2*
- THEA 261 - Stage Management *Units: 1*
- THEA 262 - Pencil and Color Sketching *Units: 1*
- THEA 431 - Exploration of Dramatic Literature Characters *Units: 3 ; G.E./G.R. Area: C4*

Students must take the following course four (4) times:

- THEA 360 - Technology and Design Studio *Units: 1*

Students must choose a minimum of 6 units from the following FOCUS courses:

- THEA 263 - Wood and Metal Construction *Units: 2*
- THEA 264 - Non-Western Costume *Units: 3 ; G.E./G.R. Area: C1*
- THEA 265 - Fashion History and Design *Units: 3 ; G.E./G.R. Area: C2*
- THEA 361 - Scene Painting *Units: 2*
- THEA 362 - Computer Aided Design and Model Making *Units: 2*
- THEA 363 - Advanced Costume Construction *Units: 2*
- THEA 365 - Masks and Specialized Makeup *Units: 2*

Other Undergraduate Degree Requirements

In addition to major requirements, every student must also complete the University's baccalaureate requirements for graduation, which are described in the Requirements, Exams & Testing chapter of this catalog.

Department Courses Listed by Course Type

Theatre and Dance Courses

Department of Theatre and Dance

Go to information for this department.

Courses

Dance

- • DANC 101 - Dance for All Bodies and Abilities *Units: 3 ; G.E./G.R. Area: C1*
- • DANC 102 - World Dance: Tradition and Change *Units: 3 ; G.E./G.R. Area: C1*
- • DANC 110 - Contemporary Ballet I *Units: 1 ; G.E./G.R. Area: E*
- • DANC 111 - Hip Hop Dance I *Units: 1 ; G.E./G.R. Area: E*
- • DANC 113 - Jazz Dance I *Units: 1 ; G.E./G.R. Area: E*
- • DANC 114 - Modern Jazz Dance I *Units: 1 ; G.E./G.R. Area: E*
- • DANC 115 - Modern Dance I *Units: 1 ; G.E./G.R. Area: E*
- • DANC 116 - Dance Partnering I *Units: 1 ; G.E./G.R. Area: E*
- • DANC 117 - Rhythm Tap Dance *Units: 1 ; G.E./G.R. Area: E*
- • DANC 210 - Contemporary Ballet II *Units: 1 ; G.E./G.R. Area: E*
- • DANC 211 - Hip Hop Dance II *Units: 1 ; G.E./G.R. Area: E*
- • DANC 212 - African Dance *Units: 1 ; G.E./G.R. Area: E*
- • DANC 213 - Jazz Dance II *Units: 1 ; G.E./G.R. Area: E*
- • DANC 214 - Modern Jazz Dance II *Units: 1 ; G.E./G.R. Area: E*
- • DANC 215 - Modern Dance II *Units: 1 ; G.E./G.R. Area: E*
- • DANC 216 - Dance Partnering II *Units: 1 ; G.E./G.R. Area: E*
- • DANC 217 - Musical Theater Dance *Units: 1 ; G.E./G.R. Area: E*
- • DANC 233 - Street to Stage: History of Hip Hop Dance *Units: 3 ; G.E./G.R. Area: C2; Diversity*
- • DANC 234 - Tap and Musical Theatre Dance on Stage and Film *Units: 3 ; G.E./G.R. Area: C1; Diversity*
- • DANC 273 - Dance on Camera *Units: 3 ; G.E./G.R. Area: C2*
- • DANC 311 - Hip Hop Dance III *Units: 1*
- • DANC 313 - Jazz Dance III *Units: 1*
- • DANC 314 - Modern Jazz Dance III *Units: 1*
- • DANC 315 - Modern Dance III *Units: 1*
- • DANC 316 - Advanced Dance Partnering *Units: 1*
- • DANC 331 - Sex, Race, and Body Politics in Dance *Units: 3 ; G.E./G.R. Area: C4; Diversity*
- • DANC 332 - World Dance and Cultures *Units: 3 ; G.E./G.R. Area: C4*
- • DANC 341 - Dance for Children *Units: 3 ; G.E./G.R. Area: C4*
- • DANC 342 - The Dance Experience *Units: 3*
- • DANC 345 - How to Watch Dance *Units: 3 ; G.E./G.R. Area: C4*
- • DANC 360 - Inclusive Interdisciplinary Ensemble Performance *Units: 2*
- • DANC 362 - Inclusive Interdisciplinary Ensemble *Units: 2*
- • DANC 370 - Dance Ensemble Performance *Units: 2*
- • DANC 371 - Dance Stage and Screen Ensemble *Units: 2*

- • DANC 372 - Dance Creative Process Ensemble *Units: 2*
- • DANC 401 - Movement Analysis *Units: 3 ; G.E./G.R. Area: C4*
- • DANC 402 - Dance Projects *Units: 2*
- • DANC 490 - Independent Study *Units: 1-4*
- • DANC 493 - Dance Projects Capstone *Units: 3*
- • DANC 497 - Issues in Dance *Units: 3*

Theatre Arts: Activity

- • THEA 150 - Improvisation for Life, Stage and Wellbeing *Units: 2 ; G.E./G.R. Area: C1*
- • THEA 151 - Fundamentals of Acting *Units: 3*
- • THEA 251 - Stage Voice and Classical Repertoire *Units: 2*
- • THEA 252 - Voice and Movement for Actors *Units: 2*
- • THEA 255 - Acting on Camera *Units: 3 ; G.E./G.R. Area: C1*
- • THEA 341 - Dramatic Activities for Children *Units: 3 ; G.E./G.R. Area: C4*
- • THEA 351 - Intermediate Acting *Units: 3*
- • THEA 371 - Musical Theatre Techniques *Units: 3*
- • THEA 372 - Musical Theatre Rehearsal *Units: 1*
- • THEA 493 - Theatre Projects Capstone *Units: 3*

Theatre Arts: Theatre

- • THEA 100 - Theatre: A Spotlight on Life *Units: 3 ; G.E./G.R. Area: C2*
- • THEA 101 - Doing The Right Thing: Social Justice Theatre *Units: 3 ; G.E./G.R. Area: C1; Social Justice*
- • THEA 102 - Asian American Theatre *Units: 3 ; G.E./G.R. Area: C2*
- • THEA 103 - Ancient Theatre *Units: 3 ; G.E./G.R. Area: C1*
- • THEA 110 - Discover Acting *Units: 3 ; G.E./G.R. Area: C1*
- • THEA 111 - Costume Techniques *Units: 1*
- • THEA 112 - Makeup Techniques *Units: 1*
- • THEA 113 - Stage Lighting Techniques *Units: 1*
- • THEA 114 - Sound Production Techniques *Units: 1*
- • THEA 231 - Creating Theatre from Personal Experience *Units: 3 ; G.E./G.R. Area: C1*
- • THEA 232 - Oral Interpretation of Literature *Units: 3 ; G.E./G.R. Area: C2*
- • THEA 233 - Pilipinix Culture: Theatre Ensemble *Units: 2 ; G.E./G.R. Area: C2; Diversity*
- • THEA 234 - Social Justice Theatre Ensemble *Units: 2 ; G.E./G.R. Area: C2; Social Justice*
- • THEA 241 - America on Stage *Units: 3 ; G.E./G.R. Area: C1*
- • THEA 242 - From Stage to Screen: Dramas and the Films They Inspired *Units: 3 ; G.E./G.R. Area: C1*
- • THEA 243 - What's so Funny? Comedic Genius Since the Sixties *Units: 3 ; G.E./G.R. Area: C1*
- • THEA 244 - The Genre of Horror *Units: 3 ; G.E./G.R. Area: C2*
- • THEA 245 - Secrets of Backstage Production *Units: 3 ; G.E./G.R. Area: C1*
- • THEA 246 - Women in Performance *Units: 3 ; G.E./G.R. Area: C1*
- • THEA 247 - Culture and Diversity *Units: 3 ; G.E./G.R. Area: C2*
- • THEA 254 - Acting and Diversity *Units: 3 ; G.E./G.R. Area: C2; Diversity*
- • THEA 260 - Architecture and Costume History *Units: 3 ; G.E./G.R. Area: C2*
- • THEA 261 - Stage Management *Units: 1*
- • THEA 262 - Pencil and Color Sketching *Units: 1*
- • THEA 263 - Wood and Metal Construction *Units: 2*
- • THEA 264 - Non-Western Costume *Units: 3 ; G.E./G.R. Area: C1*
- • THEA 265 - Fashion History and Design *Units: 3 ; G.E./G.R. Area: C2*
- • THEA 321 - History of Black Theatre *Units: 3 ; G.E./G.R. Area: C4*

- • THEA 322 - History of Musical Theatre *Units: 3 ; G.E./G.R. Area: C4*
- • THEA 323 - Shakespeare on Film *Units: 3 ; G.E./G.R. Area: C4*
- • THEA 331 - Solo and Devised Theatre Ensemble *Units: 2*
- • THEA 344 - Interpretation of Women's and Ethnic Literature *Units: 3 ; G.E./G.R. Area: C4; Diversity*
- • THEA 345 - How to Watch Plays and Film *Units: 3 ; G.E./G.R. Area: C4*
- • THEA 350 - Theatre Performance *Units: 2*
- • THEA 352 - Acting and Classical Repertoire *Units: 3*
- • THEA 359 - Directing *Units: 3*
- • THEA 360 - Technology and Design Studio *Units: 1*
- • THEA 361 - Scene Painting *Units: 2*
- • THEA 362 - Computer Aided Design and Model Making *Units: 2*
- • THEA 363 - Advanced Costume Construction *Units: 2*
- • THEA 365 - Masks and Specialized Makeup *Units: 2*
- • THEA 370 - Musical Theater Performance *Units: 2*
- • THEA 380 - Festival and Touring Participation *Units: 2*
- • THEA 381 - Production Support: Stage, Lights and Sound Shop or Crew *Units: 2*
- • THEA 382 - Production Support: Costume and Makeup Shop or Crew *Units: 2*
- • THEA 398 - Internship *Units: 1-3*
- • THEA 431 - Exploration of Dramatic Literature Characters *Units: 3 ; G.E./G.R. Area: C4*
- • THEA 432 - Exploration of Dramatic Literature Themes *Units: 3 ; G.E./G.R. Area: C4*
- • THEA 461 - Scenery, Lighting and Sound Design *Units: 3*
- • THEA 462 - Costume and Makeup Design *Units: 3*
- • THEA 490 - Independent Study *Units: 1-4*
- • THEA 497 - Issues in Dramatic Literature *Units: 3*

Theatre Arts, B.A.: Theatre Performance: Acting and Musical Theatre Concentration

Theatre Arts, B.A. Program (120 units)

Program Description

Through inclusive and rigorous creative inquiry, the Department of Theatre and Dance provides comprehensive training for performance, creativity, reflection, diversity, collaboration, mentorship, community engagement, and social justice.

Through a combination of core classes with a concentration, the program provides comprehensive pre-professional training in the areas of performance (Acting, Dance, Inclusive Performance (Applied Social Justice), and Musical Theatre) and production (Stage Technology and Design). Our primary goal is to develop artists whose performance skills and creativity are supported by a firm background in history, literature, and aesthetics. In an environment designed to encourage creativity and self-expression, students perform regularly in a variety of theatre and dance productions. The culmination requirement offers an opportunity to direct, choreograph, perform, write, intern, or design.

Theatre Arts program encourages majors to acquire a range of skills to expand their career options. Many have entered advanced studies in nationally recognized universities and conservatories. Some have chosen careers in teaching, while others have gone directly into theatre or dance performance. Alumni perform on professional stages around the world, including Broadway and Hollywood, where they have

won Tony and Emmy Awards, as well as other professional recognitions. Employers in business and public service professions desire Theatre Arts graduates for their team skills, their imaginative approach to problems, and their ability to communicate creatively.

Program Learning Outcomes

Students graduating with a B.A. in Theatre Arts from Cal State East Bay will be able to:

- ...Perform for audiences, on stage or in other arenas and careers.
- ...Create performance that presents human issues in inclusive, exciting, original ways.
- ...Reflect on historical and contemporary works of theatre and dance from diverse cultures.
- ...Engage individuals and build community through meaningful theatre and dance experiences.

Career Opportunities

Actor/Actress • Box Office Manager • Business Agent • Choreographer • College Student Services Manager • Comedian • Corporate Officer • Costume Designer • Costume/Wardrobe Technician • Dancer • Director • Drama or Dance Teacher/Professor • Dramaturg • House Manager • Lighting Technician • Make-Up Artist/Specialist • Non-profit Manager • Playwright • Producer • Recreation Supervisor • Sales/Marketing Specialist • Set Decorator • Set Designer • Sound Technician • Stage Manager • Theatre Critic • Theatre Technician • Theatre Manager

Features

The Department of Theatre and Dance produces approximately 5-8 plays and dance concerts during the year. The selection of plays exposes students to acting, dance, design, directing, singing, stage management, and technical theatre suitable to a wide variety of styles, periods, and genres from Shakespeare to American Realism and from Greek Tragedy to Modern Drama.

The department features ensemble groups in the areas of Acting, Dance, Inclusive Performance, Musical Theatre, and Stage Technology/Design, providing access to a varied and challenging performance schedule. Sixteen department productions have toured to four European countries. Annually our tours travel in-state and across the country.

The department is fortunate to have excellent facilities including the 450 seat University Theatre; a scene shop equipped for traditional carpentry and MIG welding, including a full paint frame; a costume shop with ten sewing stations; a sixteen-station design/drafting studio with a separate digital lab; two theatre studio classrooms; green room; make-up room; dressing rooms with lockers and showers; and, a spacious Dance Studio.

Degree Requirements Unit-Outline

- A baccalaureate of arts degree requires a total of 120 units:
- The major requirements consists of 50-53 units
- General Education (GE) & Graduation Requirements (GR) consists of 57 units;
- Free Electives may consist of 10-13 units (*actual number of free elective units may depend on GE/GR units*).

Note: It may be possible to double-count units within the graduation requirements or that a course may satisfy both a graduation requirement and a major requirement. Students should contact their program and AACE advisors for information.

Theatre Arts Major Requirements (50-53 units)

Core Coursework

Students must take all of the following courses for 17 units:

- DANC 362 - Inclusive Interdisciplinary Ensemble *Units: 2*
- THEA 100 - Theatre: A Spotlight on Life *Units: 3 ; G.E./G.R. Area: C2*
- THEA 151 - Fundamentals of Acting *Units: 3*
- THEA 461 - Scenery, Lighting and Sound Design *Units: 3*
- THEA 462 - Costume and Makeup Design *Units: 3*
- THEA 432 - Exploration of Dramatic Literature Themes *Units: 3 ; G.E./G.R. Area: C4*

Core Performance Coursework

Students must complete a minimum of 8 units from the following performance courses:

- DANC 360 - Inclusive Interdisciplinary Ensemble Performance *Units: 2*
- DANC 370 - Dance Ensemble Performance *Units: 2*
- THEA 350 - Theatre Performance *Units: 2*
- THEA 370 - Musical Theater Performance *Units: 2*
- THEA 381 - Production Support: Stage, Lights and Sound Shop or Crew *Units: 2*
- THEA 382 - Production Support: Costume and Makeup Shop or Crew *Units: 2*

Concentrations

Theatre Arts majors are required to choose a concentration to fulfill their major requirements. Choose one (1) of the following:

- Theatre Arts, B.A.: Dance and Inclusive Performance Concentration
- Theatre Arts, B.A.: Stage Technology and Design Concentration
- Theatre Arts, B.A.: Theatre Performance: Acting and Musical Theatre Concentration

Capstone Requirement

Students must take one of the following CAPSTONE courses for 3 units to complete the major.

- DANC 493 - Dance Projects Capstone *Units: 3*
- THEA 493 - Theatre Projects Capstone *Units: 3*

Theatre Performance: Acting and Musical Theatre Concentration

The Theatre Performance: Acting and Musical Theatre concentration consists of 24-25 units as outlined below:

Students must take 4 units of DANCE from the following courses:

- DANC 110 - Contemporary Ballet I *Units: 1 ; G.E./G.R. Area: E*
- DANC 113 - Jazz Dance I *Units: 1 ; G.E./G.R. Area: E*
- DANC 117 - Rhythm Tap Dance *Units: 1 ; G.E./G.R. Area: E*
- DANC 217 - Musical Theater Dance *Units: 1 ; G.E./G.R. Area: E*
- DANC 234 - Tap and Musical Theatre Dance on Stage and Film *Units: 3 ; G.E./G.R. Area: C1; Diversity*

Students must take all of the following 6 courses:

- THEA 112 - Makeup Techniques *Units: 1*
- THEA 114 - Sound Production Techniques *Units: 1*
- THEA 251 - Stage Voice and Classical Repertoire *Units: 2*
- THEA 252 - Voice and Movement for Actors *Units: 2*
- THEA 351 - Intermediate Acting *Units: 3*
- THEA 431 - Exploration of Dramatic Literature Characters *Units: 3 ; G.E./G.R. Area: C4*

Students must take one (1) course from the following:

- THEA 231 - Creating Theatre from Personal Experience *Units: 3 ; G.E./G.R. Area: C1*
- THEA 234 - Social Justice Theatre Ensemble *Units: 2 ; G.E./G.R. Area: C2; Social Justice*
- THEA 331 - Solo and Devise Theatre Ensemble *Units: 2*

Students choose two (2) courses from the following:

- THEA 254 - Acting and Diversity *Units: 3 ; G.E./G.R. Area: C2; Diversity*
- THEA 322 - History of Musical Theatre *Units: 3 ; G.E./G.R. Area: C4*
- THEA 352 - Acting and Classical Repertoire *Units: 3*
- THEA 371 - Musical Theatre Techniques *Units: 3*

Other Undergraduate Degree Requirements

In addition to major requirements, every student must also complete the University's baccalaureate requirements for graduation, which are described in the Requirements, Exams & Testing chapter of this catalog.

Department Courses Listed by Course Type

Theatre and Dance Courses

Department of Theatre and Dance

Go to information for this department.

Courses

Dance

- • DANC 101 - Dance for All Bodies and Abilities *Units: 3 ; G.E./G.R. Area: C1*
- • DANC 102 - World Dance: Tradition and Change *Units: 3 ; G.E./G.R. Area: C1*
- • DANC 110 - Contemporary Ballet I *Units: 1 ; G.E./G.R. Area: E*
- • DANC 111 - Hip Hop Dance I *Units: 1 ; G.E./G.R. Area: E*
- • DANC 113 - Jazz Dance I *Units: 1 ; G.E./G.R. Area: E*
- • DANC 114 - Modern Jazz Dance I *Units: 1 ; G.E./G.R. Area: E*
- • DANC 115 - Modern Dance I *Units: 1 ; G.E./G.R. Area: E*
- • DANC 116 - Dance Partnering I *Units: 1 ; G.E./G.R. Area: E*
- • DANC 117 - Rhythm Tap Dance *Units: 1 ; G.E./G.R. Area: E*
- • DANC 210 - Contemporary Ballet II *Units: 1 ; G.E./G.R. Area: E*
- • DANC 211 - Hip Hop Dance II *Units: 1 ; G.E./G.R. Area: E*
- • DANC 212 - African Dance *Units: 1 ; G.E./G.R. Area: E*
- • DANC 213 - Jazz Dance II *Units: 1 ; G.E./G.R. Area: E*
- • DANC 214 - Modern Jazz Dance II *Units: 1 ; G.E./G.R. Area: E*
- • DANC 215 - Modern Dance II *Units: 1 ; G.E./G.R. Area: E*
- • DANC 216 - Dance Partnering II *Units: 1 ; G.E./G.R. Area: E*
- • DANC 217 - Musical Theater Dance *Units: 1 ; G.E./G.R. Area: E*
- • DANC 233 - Street to Stage: History of Hip Hop Dance *Units: 3 ; G.E./G.R. Area: C2; Diversity*
- • DANC 234 - Tap and Musical Theatre Dance on Stage and Film *Units: 3 ; G.E./G.R. Area: C1; Diversity*
- • DANC 273 - Dance on Camera *Units: 3 ; G.E./G.R. Area: C2*
- • DANC 311 - Hip Hop Dance III *Units: 1*
- • DANC 313 - Jazz Dance III *Units: 1*
- • DANC 314 - Modern Jazz Dance III *Units: 1*
- • DANC 315 - Modern Dance III *Units: 1*
- • DANC 316 - Advanced Dance Partnering *Units: 1*
- • DANC 331 - Sex, Race, and Body Politics in Dance *Units: 3 ; G.E./G.R. Area: C4; Diversity*
- • DANC 332 - World Dance and Cultures *Units: 3 ; G.E./G.R. Area: C4*
- • DANC 341 - Dance for Children *Units: 3 ; G.E./G.R. Area: C4*
- • DANC 342 - The Dance Experience *Units: 3*
- • DANC 345 - How to Watch Dance *Units: 3 ; G.E./G.R. Area: C4*
- • DANC 360 - Inclusive Interdisciplinary Ensemble Performance *Units: 2*
- • DANC 362 - Inclusive Interdisciplinary Ensemble *Units: 2*
- • DANC 370 - Dance Ensemble Performance *Units: 2*
- • DANC 371 - Dance Stage and Screen Ensemble *Units: 2*
- • DANC 372 - Dance Creative Process Ensemble *Units: 2*
- • DANC 401 - Movement Analysis *Units: 3 ; G.E./G.R. Area: C4*
- • DANC 402 - Dance Projects *Units: 2*
- • DANC 490 - Independent Study *Units: 1-4*
- • DANC 493 - Dance Projects Capstone *Units: 3*
- • DANC 497 - Issues in Dance *Units: 3*

Theatre Arts: Activity

- • THEA 150 - Improvisation for Life, Stage and Wellbeing *Units: 2 ; G.E./G.R. Area: C1*
- • THEA 151 - Fundamentals of Acting *Units: 3*
- • THEA 251 - Stage Voice and Classical Repertoire *Units: 2*
- • THEA 252 - Voice and Movement for Actors *Units: 2*

- • THEA 255 - Acting on Camera *Units: 3 ; G.E./G.R. Area: C1*
- • THEA 341 - Dramatic Activities for Children *Units: 3 ; G.E./G.R. Area: C4*
- • THEA 351 - Intermediate Acting *Units: 3*
- • THEA 371 - Musical Theatre Techniques *Units: 3*
- • THEA 372 - Musical Theatre Rehearsal *Units: 1*
- • THEA 493 - Theatre Projects Capstone *Units: 3*

Theatre Arts: Theatre

- • THEA 100 - Theatre: A Spotlight on Life *Units: 3 ; G.E./G.R. Area: C2*
- • THEA 101 - Doing The Right Thing: Social Justice Theatre *Units: 3 ; G.E./G.R. Area: C1; Social Justice*
- • THEA 102 - Asian American Theatre *Units: 3 ; G.E./G.R. Area: C2*
- • THEA 103 - Ancient Theatre *Units: 3 ; G.E./G.R. Area: C1*
- • THEA 110 - Discover Acting *Units: 3 ; G.E./G.R. Area: C1*
- • THEA 111 - Costume Techniques *Units: 1*
- • THEA 112 - Makeup Techniques *Units: 1*
- • THEA 113 - Stage Lighting Techniques *Units: 1*
- • THEA 114 - Sound Production Techniques *Units: 1*
- • THEA 231 - Creating Theatre from Personal Experience *Units: 3 ; G.E./G.R. Area: C1*
- • THEA 232 - Oral Interpretation of Literature *Units: 3 ; G.E./G.R. Area: C2*
- • THEA 233 - Pilipinix Culture: Theatre Ensemble *Units: 2 ; G.E./G.R. Area: C2; Diversity*
- • THEA 234 - Social Justice Theatre Ensemble *Units: 2 ; G.E./G.R. Area: C2; Social Justice*
- • THEA 241 - America on Stage *Units: 3 ; G.E./G.R. Area: C1*
- • THEA 242 - From Stage to Screen: Dramas and the Films They Inspired *Units: 3 ; G.E./G.R. Area: C1*
- • THEA 243 - What's so Funny? Comedic Genius Since the Sixties *Units: 3 ; G.E./G.R. Area: C1*
- • THEA 244 - The Genre of Horror *Units: 3 ; G.E./G.R. Area: C2*
- • THEA 245 - Secrets of Backstage Production *Units: 3 ; G.E./G.R. Area: C1*
- • THEA 246 - Women in Performance *Units: 3 ; G.E./G.R. Area: C1*
- • THEA 247 - Culture and Diversity *Units: 3 ; G.E./G.R. Area: C2*
- • THEA 254 - Acting and Diversity *Units: 3 ; G.E./G.R. Area: C2; Diversity*
- • THEA 260 - Architecture and Costume History *Units: 3 ; G.E./G.R. Area: C2*
- • THEA 261 - Stage Management *Units: 1*
- • THEA 262 - Pencil and Color Sketching *Units: 1*
- • THEA 263 - Wood and Metal Construction *Units: 2*
- • THEA 264 - Non-Western Costume *Units: 3 ; G.E./G.R. Area: C1*
- • THEA 265 - Fashion History and Design *Units: 3 ; G.E./G.R. Area: C2*
- • THEA 321 - History of Black Theatre *Units: 3 ; G.E./G.R. Area: C4*
- • THEA 322 - History of Musical Theatre *Units: 3 ; G.E./G.R. Area: C4*
- • THEA 323 - Shakespeare on Film *Units: 3 ; G.E./G.R. Area: C4*
- • THEA 331 - Solo and Devised Theatre Ensemble *Units: 2*
- • THEA 344 - Interpretation of Women's and Ethnic Literature *Units: 3 ; G.E./G.R. Area: C4; Diversity*
- • THEA 345 - How to Watch Plays and Film *Units: 3 ; G.E./G.R. Area: C4*
- • THEA 350 - Theatre Performance *Units: 2*
- • THEA 352 - Acting and Classical Repertoire *Units: 3*
- • THEA 359 - Directing *Units: 3*
- • THEA 360 - Technology and Design Studio *Units: 1*
- • THEA 361 - Scene Painting *Units: 2*
- • THEA 362 - Computer Aided Design and Model Making *Units: 2*
- • THEA 363 - Advanced Costume Construction *Units: 2*

- • THEA 365 - Masks and Specialized Makeup *Units: 2*
- • THEA 370 - Musical Theater Performance *Units: 2*
- • THEA 380 - Festival and Touring Participation *Units: 2*
- • THEA 381 - Production Support: Stage, Lights and Sound Shop or Crew *Units: 2*
- • THEA 382 - Production Support: Costume and Makeup Shop or Crew *Units: 2*
- • THEA 398 - Internship *Units: 1-3*
- • THEA 431 - Exploration of Dramatic Literature Characters *Units: 3 ; G.E./G.R. Area: C4*
- • THEA 432 - Exploration of Dramatic Literature Themes *Units: 3 ; G.E./G.R. Area: C4*
- • THEA 461 - Scenery, Lighting and Sound Design *Units: 3*
- • THEA 462 - Costume and Makeup Design *Units: 3*
- • THEA 490 - Independent Study *Units: 1-4*
- • THEA 497 - Issues in Dramatic Literature *Units: 3*

Minor

Dance Minor

Students must complete 19 units from the following requirements to complete the minor:

Dance Requirements

Students must complete the required units in each area:

Technique Competencies

Students must take two (2) first-level technique courses from the following for 2 units:

- DANC 110 - Contemporary Ballet I *Units: 1 ; G.E./G.R. Area: E*
- DANC 111 - Hip Hop Dance I *Units: 1 ; G.E./G.R. Area: E*
- DANC 113 - Jazz Dance I *Units: 1 ; G.E./G.R. Area: E*
- DANC 114 - Modern Jazz Dance I *Units: 1 ; G.E./G.R. Area: E*
- DANC 115 - Modern Dance I *Units: 1 ; G.E./G.R. Area: E*
- DANC 116 - Dance Partnering I *Units: 1 ; G.E./G.R. Area: E*
- DANC 117 - Rhythm Tap Dance *Units: 1 ; G.E./G.R. Area: E*

Students must take one (1) second-level technique course from the following for 1 unit:

- DANC 211 - Hip Hop Dance II *Units: 1 ; G.E./G.R. Area: E*
- DANC 212 - African Dance *Units: 1 ; G.E./G.R. Area: E*
- DANC 213 - Jazz Dance II *Units: 1 ; G.E./G.R. Area: E*
- DANC 214 - Modern Jazz Dance II *Units: 1 ; G.E./G.R. Area: E*
- DANC 215 - Modern Dance II *Units: 1 ; G.E./G.R. Area: E*
- DANC 216 - Dance Partnering II *Units: 1 ; G.E./G.R. Area: E*
- DANC 217 - Musical Theater Dance *Units: 1 ; G.E./G.R. Area: E*

Learning Community

Students must take one (1) learning community course from the following for 3 units:

- DANC 101 - Dance for All Bodies and Abilities *Units: 3 ; G.E./G.R. Area: C1*
- DANC 102 - World Dance: Tradition and Change *Units: 3 ; G.E./G.R. Area: C1*
- DANC 345 - How to Watch Dance *Units: 3 ; G.E./G.R. Area: C4*

Dance History

Students must take one (1) dance history course from the following for 3 units:

- DANC 233 - Street to Stage: History of Hip Hop Dance *Units: 3 ; G.E./G.R. Area: C2; Diversity*
- DANC 234 - Tap and Musical Theatre Dance on Stage and Film *Units: 3 ; G.E./G.R. Area: C1; Diversity*
- DANC 331 - Sex, Race, and Body Politics in Dance *Units: 3 ; G.E./G.R. Area: C4; Diversity*
- DANC 332 - World Dance and Cultures *Units: 3 ; G.E./G.R. Area: C4*

Choreography and Performance or Pedagogy

Students must take six (6) units from either the Choreography and Performance group or from the Pedagogy group:

Choreography and Performance

- DANC 273 - Dance on Camera *Units: 3 ; G.E./G.R. Area: C2*
- DANC 371 - Dance Stage and Screen Ensemble *Units: 2*
- DANC 372 - Dance Creative Process Ensemble *Units: 2*
- DANC 402 - Dance Projects *Units: 2*

Pedagogy

- DANC 341 - Dance for Children *Units: 3 ; G.E./G.R. Area: C4*
- DANC 342 - The Dance Experience *Units: 3*
- DANC 401 - Movement Analysis *Units: 3 ; G.E./G.R. Area: C4*

Performance

Complete one (1) performance course from the following for 2 units:

- DANC 360 - Inclusive Interdisciplinary Ensemble Performance *Units: 2*
- DANC 370 - Dance Ensemble Performance *Units: 2*
- DANC 402 - Dance Projects *Units: 2*

Production Support

Complete one (1) production support course from the following for 2 units:

- THEA 381 - Production Support: Stage, Lights and Sound Shop or Crew *Units: 2*

- THEA 382 - Production Support: Costume and Makeup Shop or Crew *Units: 2*

Inclusive and Social Justice Performance Minor

The minor in Inclusive and Social Justice Performance is 23-24 units.

Required Coursework

Students are required to take all of the following four (4) courses for 4 units:

- THEA 111 - Costume Techniques *Units: 1*
- THEA 112 - Makeup Techniques *Units: 1*
- THEA 113 - Stage Lighting Techniques *Units: 1*
- THEA 114 - Sound Production Techniques *Units: 1*

Dance Technique Coursework

Students choose two (2) courses from the following for 2 units:

- DANC 110 - Contemporary Ballet I *Units: 1 ; G.E./G.R. Area: E*
- DANC 111 - Hip Hop Dance I *Units: 1 ; G.E./G.R. Area: E*
- DANC 115 - Modern Dance I *Units: 1 ; G.E./G.R. Area: E*
- DANC 116 - Dance Partnering I *Units: 1 ; G.E./G.R. Area: E*
- DANC 117 - Rhythm Tap Dance *Units: 1 ; G.E./G.R. Area: E*

History, Theory, and Analysis Coursework

Students must take two (2) courses for 6 units from the following lists:

Choose one (1) from the following 100 & 200-level DANC or THEA courses:

- DANC 101 - Dance for All Bodies and Abilities *Units: 3 ; G.E./G.R. Area: C1*
- DANC 102 - World Dance: Tradition and Change *Units: 3 ; G.E./G.R. Area: C1*
- DANC 233 - Street to Stage: History of Hip Hop Dance *Units: 3 ; G.E./G.R. Area: C2; Diversity*
- DANC 234 - Tap and Musical Theatre Dance on Stage and Film *Units: 3 ; G.E./G.R. Area: C1; Diversity*
- THEA 100 - Theatre: A Spotlight on Life *Units: 3 ; G.E./G.R. Area: C2*
- THEA 101 - Doing The Right Thing: Social Justice Theatre *Units: 3 ; G.E./G.R. Area: C1; Social Justice*
- THEA 102 - Asian American Theatre *Units: 3 ; G.E./G.R. Area: C2*
- THEA 241 - America on Stage *Units: 3 ; G.E./G.R. Area: C1*
- THEA 243 - What's so Funny? Comedic Genius Since the Sixties *Units: 3 ; G.E./G.R. Area: C1*
- THEA 260 - Architecture and Costume History *Units: 3 ; G.E./G.R. Area: C2*

Choose one (1) from the following 300-level DANC or THEA courses:

- DANC 345 - How to Watch Dance *Units: 3 ; G.E./G.R. Area: C4*
- THEA 345 - How to Watch Plays and Film *Units: 3 ; G.E./G.R. Area: C4*

Ensemble Participation

Students are required to take three (3) courses from the following for 6 units:

- DANC 362 - Inclusive Interdisciplinary Ensemble *Units: 2*
- DANC 371 - Dance Stage and Screen Ensemble *Units: 2*
- THEA 231 - Creating Theatre from Personal Experience *Units: 3 ; G.E./G.R. Area: C1*
- THEA 233 - Pilipinx Culture: Theatre Ensemble *Units: 2 ; G.E./G.R. Area: C2; Diversity*
- THEA 234 - Social Justice Theatre Ensemble *Units: 2 ; G.E./G.R. Area: C2; Social Justice*
- THEA 331 - Solo and Devise Theatre Ensemble *Units: 2*

Performer Methods and Support Coursework

Students must take two (2) courses from the following for a minimum of 5 units:

- DANC 331 - Sex, Race, and Body Politics in Dance *Units: 3 ; G.E./G.R. Area: C4; Diversity*
- THEA 150 - Improvisation for Life, Stage and Wellbeing *Units: 2 ; G.E./G.R. Area: C1*
- THEA 252 - Voice and Movement for Actors *Units: 2*
- THEA 254 - Acting and Diversity *Units: 3 ; G.E./G.R. Area: C2; Diversity*
- THEA 461 - Scenery, Lighting and Sound Design *Units: 3*
- THEA 462 - Costume and Makeup Design *Units: 3*

Department Courses Listed by Course Type

Theatre and Dance Courses

Department of Theatre and Dance

Go to information for this department.

Courses

Dance

- • DANC 101 - Dance for All Bodies and Abilities *Units: 3 ; G.E./G.R. Area: C1*
- • DANC 102 - World Dance: Tradition and Change *Units: 3 ; G.E./G.R. Area: C1*
- • DANC 110 - Contemporary Ballet I *Units: 1 ; G.E./G.R. Area: E*
- • DANC 111 - Hip Hop Dance I *Units: 1 ; G.E./G.R. Area: E*
- • DANC 113 - Jazz Dance I *Units: 1 ; G.E./G.R. Area: E*
- • DANC 114 - Modern Jazz Dance I *Units: 1 ; G.E./G.R. Area: E*

- • DANC 115 - Modern Dance I *Units: 1 ; G.E./G.R. Area: E*
- • DANC 116 - Dance Partnering I *Units: 1 ; G.E./G.R. Area: E*
- • DANC 117 - Rhythm Tap Dance *Units: 1 ; G.E./G.R. Area: E*
- • DANC 210 - Contemporary Ballet II *Units: 1 ; G.E./G.R. Area: E*
- • DANC 211 - Hip Hop Dance II *Units: 1 ; G.E./G.R. Area: E*
- • DANC 212 - African Dance *Units: 1 ; G.E./G.R. Area: E*
- • DANC 213 - Jazz Dance II *Units: 1 ; G.E./G.R. Area: E*
- • DANC 214 - Modern Jazz Dance II *Units: 1 ; G.E./G.R. Area: E*
- • DANC 215 - Modern Dance II *Units: 1 ; G.E./G.R. Area: E*
- • DANC 216 - Dance Partnering II *Units: 1 ; G.E./G.R. Area: E*
- • DANC 217 - Musical Theater Dance *Units: 1 ; G.E./G.R. Area: E*
- • DANC 233 - Street to Stage: History of Hip Hop Dance *Units: 3 ; G.E./G.R. Area: C2; Diversity*
- • DANC 234 - Tap and Musical Theatre Dance on Stage and Film *Units: 3 ; G.E./G.R. Area: C1; Diversity*
- • DANC 273 - Dance on Camera *Units: 3 ; G.E./G.R. Area: C2*
- • DANC 311 - Hip Hop Dance III *Units: 1*
- • DANC 313 - Jazz Dance III *Units: 1*
- • DANC 314 - Modern Jazz Dance III *Units: 1*
- • DANC 315 - Modern Dance III *Units: 1*
- • DANC 316 - Advanced Dance Partnering *Units: 1*
- • DANC 331 - Sex, Race, and Body Politics in Dance *Units: 3 ; G.E./G.R. Area: C4; Diversity*
- • DANC 332 - World Dance and Cultures *Units: 3 ; G.E./G.R. Area: C4*
- • DANC 341 - Dance for Children *Units: 3 ; G.E./G.R. Area: C4*
- • DANC 342 - The Dance Experience *Units: 3*
- • DANC 345 - How to Watch Dance *Units: 3 ; G.E./G.R. Area: C4*
- • DANC 360 - Inclusive Interdisciplinary Ensemble Performance *Units: 2*
- • DANC 362 - Inclusive Interdisciplinary Ensemble *Units: 2*
- • DANC 370 - Dance Ensemble Performance *Units: 2*
- • DANC 371 - Dance Stage and Screen Ensemble *Units: 2*
- • DANC 372 - Dance Creative Process Ensemble *Units: 2*
- • DANC 401 - Movement Analysis *Units: 3 ; G.E./G.R. Area: C4*
- • DANC 402 - Dance Projects *Units: 2*
- • DANC 490 - Independent Study *Units: 1-4*
- • DANC 493 - Dance Projects Capstone *Units: 3*
- • DANC 497 - Issues in Dance *Units: 3*

Theatre Arts: Activity

- • THEA 150 - Improvisation for Life, Stage and Wellbeing *Units: 2 ; G.E./G.R. Area: C1*
- • THEA 151 - Fundamentals of Acting *Units: 3*
- • THEA 251 - Stage Voice and Classical Repertoire *Units: 2*
- • THEA 252 - Voice and Movement for Actors *Units: 2*
- • THEA 255 - Acting on Camera *Units: 3 ; G.E./G.R. Area: C1*
- • THEA 341 - Dramatic Activities for Children *Units: 3 ; G.E./G.R. Area: C4*
- • THEA 351 - Intermediate Acting *Units: 3*
- • THEA 371 - Musical Theatre Techniques *Units: 3*
- • THEA 372 - Musical Theatre Rehearsal *Units: 1*
- • THEA 493 - Theatre Projects Capstone *Units: 3*

Theatre Arts: Theatre

- • THEA 100 - Theatre: A Spotlight on Life *Units: 3 ; G.E./G.R. Area: C2*
- • THEA 101 - Doing The Right Thing: Social Justice Theatre *Units: 3 ; G.E./G.R. Area: C1; Social Justice*
- • THEA 102 - Asian American Theatre *Units: 3 ; G.E./G.R. Area: C2*
- • THEA 103 - Ancient Theatre *Units: 3 ; G.E./G.R. Area: C1*
- • THEA 110 - Discover Acting *Units: 3 ; G.E./G.R. Area: C1*
- • THEA 111 - Costume Techniques *Units: 1*
- • THEA 112 - Makeup Techniques *Units: 1*
- • THEA 113 - Stage Lighting Techniques *Units: 1*
- • THEA 114 - Sound Production Techniques *Units: 1*
- • THEA 231 - Creating Theatre from Personal Experience *Units: 3 ; G.E./G.R. Area: C1*
- • THEA 232 - Oral Interpretation of Literature *Units: 3 ; G.E./G.R. Area: C2*
- • THEA 233 - Pilipinix Culture: Theatre Ensemble *Units: 2 ; G.E./G.R. Area: C2; Diversity*
- • THEA 234 - Social Justice Theatre Ensemble *Units: 2 ; G.E./G.R. Area: C2; Social Justice*
- • THEA 241 - America on Stage *Units: 3 ; G.E./G.R. Area: C1*
- • THEA 242 - From Stage to Screen: Dramas and the Films They Inspired *Units: 3 ; G.E./G.R. Area: C1*
- • THEA 243 - What's so Funny? Comedic Genius Since the Sixties *Units: 3 ; G.E./G.R. Area: C1*
- • THEA 244 - The Genre of Horror *Units: 3 ; G.E./G.R. Area: C2*
- • THEA 245 - Secrets of Backstage Production *Units: 3 ; G.E./G.R. Area: C1*
- • THEA 246 - Women in Performance *Units: 3 ; G.E./G.R. Area: C1*
- • THEA 247 - Culture and Diversity *Units: 3 ; G.E./G.R. Area: C2*
- • THEA 254 - Acting and Diversity *Units: 3 ; G.E./G.R. Area: C2; Diversity*
- • THEA 260 - Architecture and Costume History *Units: 3 ; G.E./G.R. Area: C2*
- • THEA 261 - Stage Management *Units: 1*
- • THEA 262 - Pencil and Color Sketching *Units: 1*
- • THEA 263 - Wood and Metal Construction *Units: 2*
- • THEA 264 - Non-Western Costume *Units: 3 ; G.E./G.R. Area: C1*
- • THEA 265 - Fashion History and Design *Units: 3 ; G.E./G.R. Area: C2*
- • THEA 321 - History of Black Theatre *Units: 3 ; G.E./G.R. Area: C4*
- • THEA 322 - History of Musical Theatre *Units: 3 ; G.E./G.R. Area: C4*
- • THEA 323 - Shakespeare on Film *Units: 3 ; G.E./G.R. Area: C4*
- • THEA 331 - Solo and Devised Theatre Ensemble *Units: 2*
- • THEA 344 - Interpretation of Women's and Ethnic Literature *Units: 3 ; G.E./G.R. Area: C4; Diversity*
- • THEA 345 - How to Watch Plays and Film *Units: 3 ; G.E./G.R. Area: C4*
- • THEA 350 - Theatre Performance *Units: 2*
- • THEA 352 - Acting and Classical Repertoire *Units: 3*
- • THEA 359 - Directing *Units: 3*
- • THEA 360 - Technology and Design Studio *Units: 1*
- • THEA 361 - Scene Painting *Units: 2*
- • THEA 362 - Computer Aided Design and Model Making *Units: 2*
- • THEA 363 - Advanced Costume Construction *Units: 2*
- • THEA 365 - Masks and Specialized Makeup *Units: 2*
- • THEA 370 - Musical Theater Performance *Units: 2*
- • THEA 380 - Festival and Touring Participation *Units: 2*
- • THEA 381 - Production Support: Stage, Lights and Sound Shop or Crew *Units: 2*
- • THEA 382 - Production Support: Costume and Makeup Shop or Crew *Units: 2*
- • THEA 398 - Internship *Units: 1-3*
- • THEA 431 - Exploration of Dramatic Literature Characters *Units: 3 ; G.E./G.R. Area: C4*
- • THEA 432 - Exploration of Dramatic Literature Themes *Units: 3 ; G.E./G.R. Area: C4*

- • THEA 461 - Scenery, Lighting and Sound Design *Units: 3*
- • THEA 462 - Costume and Makeup Design *Units: 3*
- • THEA 490 - Independent Study *Units: 1-4*
- • THEA 497 - Issues in Dramatic Literature *Units: 3*

Theatre Minor

Minor Requirements (20-22 units)

The Theatre Minor offers recognition for students who seek to add theatre performance, technical, or literary skills to their resume. Where presentation, production, or humane analysis will benefit a career, this minor will supply the introduction to and practice of teamwork, creative problem solving, and cultural understanding.

Required Courses (4 units)

- THEA 231 - Creating Theatre from Personal Experience *Units: 3 ; G.E./G.R. Area: C1*

Basic Technique Elective

Choose one (1) Basic Technique course listed below for 1 units:

- THEA 111 - Costume Techniques *Units: 1*
- THEA 112 - Makeup Techniques *Units: 1*
- THEA 113 - Stage Lighting Techniques *Units: 1*
- THEA 114 - Sound Production Techniques *Units: 1*

Electives (16-18 units)

At least nine (9) units must be from upper division.

Focus Electives

Complete four (4) courses from the following, at least two (2) 300-level or above for 10-12 units:

- THEA 100 - Theatre: A Spotlight on Life *Units: 3 ; G.E./G.R. Area: C2*
- THEA 101 - Doing The Right Thing: Social Justice Theatre *Units: 3 ; G.E./G.R. Area: C1; Social Justice*
- THEA 102 - Asian American Theatre *Units: 3 ; G.E./G.R. Area: C2*
- THEA 103 - Ancient Theatre *Units: 3 ; G.E./G.R. Area: C1*
- THEA 151 - Fundamentals of Acting *Units: 3*
- THEA 241 - America on Stage *Units: 3 ; G.E./G.R. Area: C1*
- THEA 246 - Women in Performance *Units: 3 ; G.E./G.R. Area: C1*
- THEA 251 - Stage Voice and Classical Repertoire *Units: 2*
- THEA 252 - Voice and Movement for Actors *Units: 2*
- THEA 254 - Acting and Diversity *Units: 3 ; G.E./G.R. Area: C2; Diversity*
- THEA 255 - Acting on Camera *Units: 3 ; G.E./G.R. Area: C1*
- THEA 260 - Architecture and Costume History *Units: 3 ; G.E./G.R. Area: C2*
- THEA 323 - Shakespeare on Film *Units: 3 ; G.E./G.R. Area: C4*

- THEA 351 - Intermediate Acting *Units: 3*
- THEA 352 - Acting and Classical Repertoire *Units: 3*
- THEA 371 - Musical Theatre Techniques *Units: 3*
- THEA 431 - Exploration of Dramatic Literature Characters *Units: 3 ; G.E./G.R. Area: C4*
- THEA 432 - Exploration of Dramatic Literature Themes *Units: 3 ; G.E./G.R. Area: C4*
- THEA 461 - Scenery, Lighting and Sound Design *Units: 3*
- THEA 462 - Costume and Makeup Design *Units: 3*

Complete at least one (1) of the following courses (2 units):

- THEA 350 - Theatre Performance *Units: 2*
- THEA 370 - Musical Theater Performance *Units: 2*

Complete two (2) courses from the following (4 units):

- THEA 233 - Pilipinx Culture: Theatre Ensemble *Units: 2 ; G.E./G.R. Area: C2; Diversity*
- THEA 234 - Social Justice Theatre Ensemble *Units: 2 ; G.E./G.R. Area: C2; Social Justice*
- THEA 331 - Solo and Devised Theatre Ensemble *Units: 2*
- THEA 381 - Production Support: Stage, Lights and Sound Shop or Crew *Units: 2*
- THEA 382 - Production Support: Costume and Makeup Shop or Crew *Units: 2*

Interdisciplinary Studies and Special Certificates

Academic Programs & Services

Student Services and Administration (SA) building, 4th Floor, Ste 4500

Phone: (510) 885-3716

Students interested in pursuing the Interdisciplinary Studies B.A. or B.S. or a Special Certificate should contact Dr. Mitch Watnik, Interim Associate Dean of Undergraduate Studies.

The purpose of the Interdisciplinary Studies Major and the Special Certificate programs is to allow students, with the advice and approval of knowledgeable faculty and administrators, to design their own academic programs tailored to their unique needs and interests.

At least two separate degree-granting programs must be involved. An undergraduate Interdisciplinary Studies Major must be approved no later than the time when the student has 45 semester units of work remaining to complete for the degree, including at least 30 semester units in the Interdisciplinary Studies Major. This ensures that a significant portion of the program is planned in advance by the student and his/her faculty advisors. The diploma will read Interdisciplinary Studies Major In (program title).

The Interdisciplinary Studies Major program should not be seen as a device to avoid certain requirements of a regular major, nor as a means to gain admission to an impacted program. Likewise, an Interdisciplinary Studies Major cannot be developed in areas such as architecture, agriculture, and home economics where the campus currently lacks the necessary faculty expertise and physical facilities.

Finally, an Interdisciplinary Studies Major is not a self-study, independent study, or external degree program.

Bachelor

Interdisciplinary Studies, B.A.

*** Please see the Errata chapter in this catalog for information concerning total units.*

Interdisciplinary Studies, B.A./B.S. (52-54 units)**

Note: The programs are currently undergoing review. Students interested in pursuing the Interdisciplinary Studies B.A. or B.S. or a Special Certificate should contact the Dean of Academic Programs and Services for forms and information.

Major Requirements

The University offers both the B.A. and B.S. degrees with an Interdisciplinary Studies Major. There are no clearly defined differences between the two degrees, although B.S. degrees tend to be applied programs, while the B.A. is usually considered a liberal arts and social sciences degree. Normally, the type of degree awarded for an Interdisciplinary Studies Major reflects the degrees offered by the involved departments.

To be eligible for an Interdisciplinary Studies Major, a student must have a cumulative GPA of at least 2.50. An Interdisciplinary Studies Major must be a coherent program organized around a sound academic theme. The title of an Interdisciplinary Studies Major should be short (three to five words) and should describe the central academic theme of the program, not the student's career objectives unless the two coincide.

An Interdisciplinary Studies Major must be fully approved before the student has fewer than 27 semester units to complete the major and 40 for the degree. An Interdisciplinary Studies Major must contain at least 35 semester units for the B.A. or 36 semester units for the B.S. degree. The maximum number of semester units for the Interdisciplinary Studies Major is 62 units for either the B.A. or the B.S., of which at least 24 are upper division (junior/senior level). Coursework in at least two different disciplines is required. The B.A. and B.S. degrees with an Interdisciplinary Studies Major require a total of at least 120 units.

The Interdisciplinary Studies Major requires more depth in the disciplines than the Liberal Studies Major. Accordingly, Interdisciplinary Studies Majors are expected to progress beyond general education courses in their fields.

To be eligible for an undergraduate Interdisciplinary Studies Major, the student must:

- Have an overall (all-college) and CSUEB grade point average of at least 2.50.
- Develop a one-page prospectus of at least 200 words describing the theme/focus of the academic program, giving it a title, listing the departments involved (at least two), discussing the reasons the objective cannot be met through a regular program, providing their academic and experiential background relevant to the program, stating their occupational goals, giving their time frame for completion of the program, and including their name, address, daytime phone, horizon e-mail address, and Net ID.

- After securing their consent, nominate three regular full-time faculty members to comprise the Interdisciplinary Studies Major Committee and serve as the academic advisors. The three committee members (one of whom would be the chair) must come from at least two different Cal State East Bay departments. All three members must come from departments from which the courses are chosen (e.g., an English instructor cannot be on the committee if no English courses are in the Interdisciplinary Studies Major proposal).
- Have at least 40 more semester units to complete for the degree, including at least 27 more semester units to complete for the major. Ideally, a student contemplating an Interdisciplinary Studies Major should undertake the implementation process no later than the first semester of their junior status so approval can be obtained before the completion of 80 semester units.

Procedure

Students who meet the criteria above and are interested in declaring the Interdisciplinary Studies Major must:

- E-mail the Interdisciplinary Studies Coordinator's assistant at aps@csueastbay.edu to obtain the information and instructions handout and a sample prospectus.
- Submit a prospectus (see criterion 2 above), which includes the names of the three faculty committee advisors, to the Interdisciplinary Studies Major Coordinator's assistant (aps@csueastbay.edu) before having 40 semester units left to complete the degree, including 27 semester units left to complete the major.
- The Dean of Academic Programs and Services (or their designee) reviews the prospectus and, if it is academically sound and logistically feasible, the Interdisciplinary Studies Major Coordinator forwards it (along with this description of the Interdisciplinary Studies Major policies and procedures, copies of your transcripts, and a Proposal Form) to the three faculty advisers who comprise the student's Interdisciplinary Studies Major committee.
- The three-person committee meets with the student to design the program and agree upon 3-4 learning outcomes. To avoid possible course planning problems, it is the student's responsibility to verify with the appropriate department chair(s) when the chosen major courses will be next offered and if there will be any problems with enrolling in them. One faculty member, designated as the committee chair, completes the Proposal Form, obtains the approvals of the student and all committee members, and submits the form to the Interdisciplinary Studies Major Coordinator.
- The Dean of Academic Programs and Services or their designee reviews the proposed major and learning outcomes and, if they satisfy University requirements, the Coordinator forwards a copy along with the College (Associate) Dean's Approval Form to the (associate) dean of the college in which the most units are taken and which will be the sponsoring college. That (associate) dean must approve the program and learning outcomes if they are to be implemented. A copy of the Proposal Form, proposed learning outcomes, and a college (Associate) Dean's Approval Form are also forwarded to the (associate) dean of any other college in which there are program courses.
- Each college associate dean reviews the proposed program and learning outcomes and has 2 weeks (10 class days) to respond to the Coordinator.
- If an objection is received from any college (associate) dean by the Coordinator, the proposal will be held pending resolution by that (associate) dean, the faculty committee, and the student. If the (associate) dean of the college from the sponsoring college approves the proposal and learning outcomes and if no objection is received from the other (associate) dean(s), the Dean of Academic Programs and Services will act on the proposal. If an objection is successfully overcome, the Dean of Academic Programs and Services will act on the proposal. If there are no objections or the objections are resolved, the proposal and learning outcomes will normally be approved by the Dean of Academic Programs and Services.

- When a proposal has been approved, the final document will be sent to the General Studies Department Office and the Approval Sheet signed by the Coordinator and the student.
- When the proposal is fully approved, the student will complete a Change of Major form. Copies of the program will be held by Academic Programs and Services and may be accessed at any time by the committee members, the associate dean of the sponsoring college, the Registrar's Office, and/or Coordinator.
- If changes to the program become necessary, the student shall e-mail the Interdisciplinary Studies Major Assistant at aps@csueastbay.edu and they will initiate a Petition for Change in Interdisciplinary Studies Major Requirements form for approval by the faculty committee chair, college (associate) dean, and the Coordinator. Upon approval, the program will be changed and notifications will be sent to the committee members and the student.
- When filing for graduation, the student shall inform the Coordinator. The graduation check for the Interdisciplinary Studies Major will be handled by the Coordinator and delivered to the Registrar's Office.

Interdisciplinary Studies, B.S.

**** Please see the Errata chapter in this catalog for information concerning total units.**

Interdisciplinary Studies, B.A./B.S. (52-54 units)**

Note: The programs are currently undergoing review. Students interested in pursuing the Interdisciplinary Studies B.A. or B.S. or a Special Certificate should contact the Dean of Academic Programs and Services for forms and information.

Major Requirements

The University offers both the B.A. and B.S. degrees with an Interdisciplinary Studies Major. There are no clearly defined differences between the two degrees, although B.S. degrees tend to be applied programs, while the B.A. is usually considered a liberal arts and social sciences degree. Normally, the type of degree awarded for an Interdisciplinary Studies Major reflects the degrees offered by the involved departments.

To be eligible for an Interdisciplinary Studies Major, a student must have a cumulative GPA of at least 2.50. An Interdisciplinary Studies Major must be a coherent program organized around a sound academic theme. The title of an Interdisciplinary Studies Major should be short (three to five words) and should describe the central academic theme of the program, not the student's career objectives unless the two coincide.

An Interdisciplinary Studies Major must be fully approved before the student has fewer than 27 semester units to complete the major and 40 for the degree. An Interdisciplinary Studies Major must contain at least 35 semester units for the B.A. or 36 semester units for the B.S. degree. The maximum number of semester units for the Interdisciplinary Studies Major is 62 units for either the B.A. or the B.S., of which at least 24 are upper division (junior/senior level). Coursework in at least two different disciplines is required. The B.A. and B.S. degrees with an Interdisciplinary Studies Major require a total of at least 120 units.

The Interdisciplinary Studies Major requires more depth in the disciplines than the Liberal Studies Major. Accordingly, Interdisciplinary Studies Majors are expected to progress beyond general education courses in their fields.

To be eligible for an undergraduate Interdisciplinary Studies Major, the student must:

- Have an overall (all-college) and CSUEB grade point average of at least 2.50.
- Develop a one-page prospectus of at least 200 words describing the theme/focus of the academic program, giving it a title, listing the departments involved (at least two), discussing the reasons the objective cannot be met through a regular program, providing their academic and experiential background relevant to the program, stating their occupational goals, giving their time frame for completion of the program, and including their name, address, daytime phone, horizon e-mail address, and Net ID.
- After securing their consent, nominate three regular full-time faculty members to comprise the Interdisciplinary Studies Major Committee and serve as the academic advisors. The three committee members (one of whom would be the chair) must come from at least two different Cal State East Bay departments. All three members must come from departments from which the courses are chosen (e.g., an English instructor cannot be on the committee if no English courses are in the Interdisciplinary Studies Major proposal).
- Have at least 40 more semester units to complete for the degree, including at least 27 more semester units to complete for the major. Ideally, a student contemplating an Interdisciplinary Studies Major should undertake the implementation process no later than the first semester of their junior status so approval can be obtained before the completion of 80 semester units.

Procedure

Students who meet the criteria above and are interested in declaring the Interdisciplinary Studies Major must:

- E-mail the Interdisciplinary Studies Coordinator's assistant at aps@csueastbay.edu to obtain the information and instructions handout and a sample prospectus.
- Submit a prospectus (see criterion 2 above), which includes the names of the three faculty committee advisors, to the Interdisciplinary Studies Major Coordinator's assistant (aps@csueastbay.edu) before having 40 semester units left to complete the degree, including 27 semester units left to complete the major.
- The Dean of Academic Programs and Services (or their designee) reviews the prospectus and, if it is academically sound and logistically feasible, the Interdisciplinary Studies Major Coordinator forwards it (along with this description of the Interdisciplinary Studies Major policies and procedures, copies of your transcripts, and a Proposal Form) to the three faculty advisers who comprise the student's Interdisciplinary Studies Major committee.
- The three-person committee meets with the student to design the program and agree upon 3-4 learning outcomes. To avoid possible course planning problems, it is the student's responsibility to verify with the appropriate department chair(s) when the chosen major courses will be next offered and if there will be any problems with enrolling in them. One faculty member, designated as the committee chair, completes the Proposal Form, obtains the approvals of the student and all committee members, and submits the form to the Interdisciplinary Studies Major Coordinator.
- The Dean of Academic Programs and Services or their designee reviews the proposed major and learning outcomes and, if they satisfy University requirements, the Coordinator forwards a copy along with the College (Associate) Dean's Approval Form to the (associate) dean of the college in which the most units are taken and which will be the sponsoring college. That (associate) dean must approve the program and learning outcomes if they are to be implemented. A copy of the Proposal Form, proposed learning outcomes, and a college (Associate) Dean's Approval Form are also forwarded to the (associate) dean of any other college in which there are program courses.
- Each college associate dean reviews the proposed program and learning outcomes and has 2 weeks (10 class days) to respond to the Coordinator.

- If an objection is received from any college (associate) dean by the Coordinator, the proposal will be held pending resolution by that (associate) dean, the faculty committee, and the student. If the (associate) dean of the college from the sponsoring college approves the proposal and learning outcomes and if no objection is received from the other (associate) dean(s), the Dean of Academic Programs and Services will act on the proposal. If an objection is successfully overcome, the Dean of Academic Programs and Services will act on the proposal. If there are no objections or the objections are resolved, the proposal and learning outcomes will normally be approved by the Dean of Academic Programs and Services.
- When a proposal has been approved, the final document will be sent to the General Studies Department Office and the Approval Sheet signed by the Coordinator and the student.
- When the proposal is fully approved, the student will complete a Change of Major form. Copies of the program will be held by Academic Programs and Services and may be accessed at any time by the committee members, the associate dean of the sponsoring college, the Registrar's Office, and/or Coordinator.
- If changes to the program become necessary, the student shall e-mail the Interdisciplinary Studies Major Assistant at aps@csueastbay.edu and they will initiate a Petition for Change in Interdisciplinary Studies Major Requirements form for approval by the faculty committee chair, college (associate) dean, and the Coordinator. Upon approval, the program will be changed and notifications will be sent to the committee members and the student.
- When filing for graduation, the student shall inform the Coordinator. The graduation check for the Interdisciplinary Studies Major will be handled by the Coordinator and delivered to the Registrar's Office.

International Studies Program

The Department Office is located on the 2nd Floor of the Robinson Hall building, Room 220

Office Hours: 8:00 a.m. - 5:00 p.m., Monday through Friday

Dept Phone: (510) 885-3193

Faculty

Professors

Michael D. Lee (Anthropology, Geography and Environmental Studies), Ph.D. London School of Economics (England)

Andrew Wong (Anthropology, Geography and Environmental Studies), Ph.D. Stanford University

Meling Wu (Modern Languages and Literatures), Ph.D. State University of New York at Binghamton

Associate Professors

Elkin Alakent (Management), Ph.D. University of Texas at Dallas

Vahid Fozdar (History), Ph.D. University of California, Berkeley

Maria C. Ortuoste (Political Science), Ph.D. Arizona State University

Marcelo Paz (Modern Languages and Literatures), Ph.D. University of Cincinnati

Assistant Professor

Sukari Ivester (Sociology and Social Services), Ph.D. University of Chicago

Director: Andrew Wong

Program Statement

The International Studies major consists of an integrated group of courses reflecting international aspects of various disciplines. It is designed to provide the student with a broad base of understanding of the interrelationship of the world community, while at the same time providing the opportunity to specialize in an area of interest. A minor in International Studies is also offered.

The International Studies major consists of a lower division requirement of eighteen to nineteen (18-19) units in International Studies, Culture and Society, Geography, Economics, Political Science, and Humanities, plus a foreign language requirement. The upper division requirements include a methods course, a twentieth century History course, and two INTS courses (a senior seminar and an international field experience). The student will complete the major with twelve to sixteen (12-16) units of international coursework with a particular emphasis.

About the Program

Use our university website link to learn more about what the International Studies Program has to offer.

- Study Abroad
- Internships
- Center for International Education
- Degree Roadmaps
- Faculty Profiles
- And more...

Bachelor**International Studies, B.A.**

International Studies, B.A. Program (120 units)

Program Description

The International Studies BA consists of an integrated group of courses reflecting international aspects of various disciplines. It is designed to provide the student with a broad base of understanding of the world community and of international processes and relationships while providing the opportunity to specialize in an area of interest. A minor in International Studies is also offered.

The International Studies major consists of a lower division requirement eighteen (18) to twenty-seven (27) units. These include one course in international studies (1 course), plus one course in each of the following five areas: culture/society, geography, economics, politics, and the humanities/languages (5 courses). They also include proficiency in a foreign language at the intermediate level. The foreign language requirement can be met through study to the intermediate level (12 units), through Advanced Placement scores, or through documented native oral and written proficiency. Students without documented proficiency should contact the Director to determine eligibility for a waiver from language course requirements. The lower division program maps closely to the California Community College transfer degree in Global Studies.

The upper division requirements range from 21-29 units depending on whether 3 or 4 unit courses are selected from the choices available. Requirements include a methods course, a modern history course, and two INTS courses (the senior seminar and an international field experience, the latter not needed if the student elects to study abroad). The student will complete the major with four courses (12-16 units) of internationally-focused coursework with a particular emphasis on; a region of the world (e.g. Asia), a related discipline (e.g. Anthropology), or a topic (e.g. Peace and Conflict). Many course electives will also meet general education requirements and INTS can be easily dovetailed with many other degrees for those seeking a double major within their 120 units of study.

Career Opportunities

Career opportunities are highly diverse, depending on the student's interests and skills and new opportunities are rapidly emerging and expanding. Our Graduates work in all sectors: governmental, non-profit, private, and education. Our Alumni pursue graduate degrees in many fields including but not limited to: foreign service, law, political science, international relations, and management and business and some elect to join the Peace Corps or pursue other international service opportunities before continuing to graduate school or their chosen career path.

Job titles include, but are not limited to:

Diplomacy and Foreign Service • Educational and Cultural Exchange Programs • Federal Government • Humanitarian and Development Work • International Business • International Organizations • Journalism • Law • Local Services to Foreign Language Speakers • Politics • Tourism • Teaching • Translation

Features

The University encourages firsthand experience abroad. INTS 398 (International Field Work) is designed to afford such an opportunity. Optimally the student will elect to complete an internship or other practical experience, either paid or voluntary, in a foreign country. The University recognizes that this may not always be possible and therefore accepts the completion of the internship locally if the work experience is clearly internationally related. The student may also elect to fulfill the international work experience requirement by completing a course of study through the CSU International Programs or another recognized year-long, quarter, semester, or summer program abroad. Any such activity must be approved by the International Studies Director before being undertaken to establish the learning goals for the activity and align them with the stated program goals.

Program Learning Outcomes

In addition to the university-wide institutional learning outcomes, students graduating with a B.A. in International Studies from Cal State East Bay will be able to:

- demonstrate cross-cultural competencies, including second language capabilities and knowledge of other cultures and cultural systems.
- demonstrate knowledge of global political, economic, social, and geographic systems including their interconnections and sustainability challenges.
- demonstrate the ability to research, write and communicate orally about complex international issues both individually and through collaborative learning and teamwork.
- demonstrate broad knowledge of the international dimensions and issues of a chosen emphasis area (a region, a discipline, or a clearly defined topic)
- demonstrate the ability to participate successfully in international cultural and/or civic engagement activities and enterprises.
- articulate personal career goals, recognize the variety of career opportunities related to international studies, and prepare for their chosen career(s).

Degree Requirements Unit-Outline

- A baccalaureate of arts degree requires a total of 120 units:
- The major requirements consists of 39-57 units
- General Education (GE) & Graduation Requirements (GR) consists of 57 units;
- Free Electives may consist of 7-24 units (*actual number of free elective units may depend on GE/GR units*).

Note: It may be possible to double-count units within the graduation requirements or that a course may satisfy both a graduation requirement and a major requirement. Students should contact their program and AACE advisors for information.

International Studies Major Requirements (39-57 units)

Lower Division Coursework

Students must take a total of six (6) courses, at least one (1) course from each of the following areas, for 18-19 units:

International Studies

- INTS 101 - Introduction to International Studies Units: 3 ; G.E./G.R. Area: D1-3

Culture and Society

- ANTH 130 - Introduction to Cultural Anthropology Units: 3 ; G.E./G.R. Area: D1-3
- HIST 102 - World History II Units: 3 ; G.E./G.R. Area: C2

Geography

- GEOG 110 - Physical Geography: Earth Processes and Outcomes Units: 3 ; G.E./G.R. Area: B1
- GEOG 120 - Human Geography: Diversity and Globalization Units: 3 ; G.E./G.R. Area: D1-3
- GEOG 125 - World Regions and Development Units: 3 ; G.E./G.R. Area: D1-3

Economics

- ECON 100 - Economics of Public Issues *Units: 3 ; G.E./G.R. Area: D1-3*
- ECON 200 - Principles of Microeconomics *Units: 3 ; G.E./G.R. Area: D1-3; Social Justice*
- ECON 205 - Principles of Macroeconomics *Units: 3 ; G.E./G.R. Area: D1-3*

Political Science

- POSC 100 - Introduction to Political Science *Units: 3*
- POSC 150 - Conflict in World Politics *Units: 3 ; G.E./G.R. Area: D1-3*

Humanities and Modern Language

- ENGL 220 - Immigration and Migration in American Literature *Units: 4 ; G.E./G.R. Area: C2*
- MUS 104 - Introduction to World Music *Units: 3 ; G.E./G.R. Area: C1*
- or other humanities class approved by the International Studies Director (one foreign language course will satisfy this requirement).

Upper Division Course & Field Work

Students are required to take 3-6 units of the following as outlined:

The following course is required for 3 units:

- HIST 328 - 20th Century World *Units: 3 ; G.E./G.R. Area: C4*

International Field Experience, for 0-3 units, is required:

- INTS 398 - Internship *Units: 2-3*

Note: All INTS majors, with the exception of those who participate in an approved study abroad program, must take INTS 398.

Methods Coursework

Students must choose one (1) course for 3-4 units from the following:

- ANTH 430 - Field Course in Ethnography *Units: 3*
- ECON 310 - Introduction to Econometrics *Units: 3*
- ENVT 320 - Environmental Resource Analysis *Units: 4*
- HIST 301 - Historical Writing *Units: 4 ; G.E./G.R. Area: UWSR*
- MGMT 350 - Decision Science *Units: 3 ; G.E./G.R. Area: B6*
- POSC 330 - Voting and Public Opinion *Units: 3*
- PSYC 200 - Methods of Investigation in Psychology *Units: 3*
- SOC 390 - Sociological Research Methods *Units: 4*
- STAT 310 - Statistical Methods in the Social Sciences *Units: 3*
- STAT 473 - Introduction to Nonparametric Statistics *Units: 3*

Emphasis Coursework

With approval from the International Studies Director, 12-16 units of emphasis coursework in one of the following areas are required:

- a discipline area
- a regional area
- a topic area

Foreign Language Proficiency

Oral and written proficiency in a modern foreign language equivalent to two (2) full years of university-level studies. The requirement can be fulfilled by the completion of the second semester of intermediate language at Cal State East Bay or by other proof of oral and written proficiency at that level. This area consists of 0-9 units.

Capstone Requirement

The following senior seminar for 3 units is required to complete the major:

- INTS 499 - Senior Seminar in International Studies *Units: 3*

Other Undergraduate Degree Requirements

In addition to major requirements, every student must also complete the University's baccalaureate requirements for graduation, which are described in the Requirements, Exams & Testing chapter of this catalog.

Department Courses Listed by Course Type

International Studies Courses

International Studies Program

Go to information for this department.

Courses

International Studies

- • INTS 101 - Introduction to International Studies *Units: 3 ; G.E./G.R. Area: D1-3*
- • INTS 398 - Internship *Units: 2-3*
- • INTS 490 - Independent Study *Units: 1-3*
- • INTS 497 - Issues in International Studies *Units: 3*
- • INTS 499 - Senior Seminar in International Studies *Units: 3*

Minor

International Studies Minor

Minor Requirements (17-26 units)

Language Requirement

Six (6) semester units (two-course sequence) of a modern foreign language or the equivalent as determined by examination for 0-6 units is required.

Required Course

Take the following 3 units:

- **INTS 101 - Introduction to International Studies** *Units: 3 ; G.E./G.R. Area: D1-3*

Lower Division Elective

Choose one (1) course for 3-4 units from the following:

- **ANTH 130 - Introduction to Cultural Anthropology** *Units: 3 ; G.E./G.R. Area: D1-3*
- **ECON 100 - Economics of Public Issues** *Units: 3 ; G.E./G.R. Area: D1-3*
- **ECON 200 - Principles of Microeconomics** *Units: 3 ; G.E./G.R. Area: D1-3; Social Justice*
- **ECON 205 - Principles of Macroeconomics** *Units: 3 ; G.E./G.R. Area: D1-3*
- **ENGL 220 - Immigration and Migration in American Literature** *Units: 4 ; G.E./G.R. Area: C2*
- **GEOG 110 - Physical Geography: Earth Processes and Outcomes** *Units: 3 ; G.E./G.R. Area: B1*
- **GEOG 120 - Human Geography: Diversity and Globalization** *Units: 3 ; G.E./G.R. Area: D1-3*
- **GEOG 125 - World Regions and Development** *Units: 3 ; G.E./G.R. Area: D1-3*
- **HIST 102 - World History II** *Units: 3 ; G.E./G.R. Area: C2*
- **MUS 104 - Introduction to World Music** *Units: 3 ; G.E./G.R. Area: C1*
- **POSC 100 - Introduction to Political Science** *Units: 3*
- **POSC 150 - Conflict in World Politics** *Units: 3 ; G.E./G.R. Area: D1-3*

Upper Division Coursework

Take 11-13 units as outlined below:

Students must take three (3) courses of upper division international course work (minimum of 9 units) in an area of emphasis. Area of emphasis to be chosen with approval of International Studies Director.

- a discipline area
- a regional area
- a topic area

Plus, students must take 2-3 units of either International Field Work or an approved program of Study Abroad. Students must successfully complete at least one (1) three-credit class on an appropriate study abroad program.

- **INTS 398 - Internship** *Units: 2-3*

Department Courses Listed by Course Type

International Studies Courses

International Studies Program

Go to information for this department.

Courses

International Studies

- • INTS 101 - Introduction to International Studies *Units: 3 ; G.E./G.R. Area: D1-3*
- • INTS 398 - Internship *Units: 2-3*
- • INTS 490 - Independent Study *Units: 1-3*
- • INTS 497 - Issues in International Studies *Units: 3*
- • INTS 499 - Senior Seminar in International Studies *Units: 3*

Liberal Studies Program

The Liberal Studies Program's Office is located on the 4th floor of Meiklejohn Hall, Room MI 4006.

Office Hours: 8:00 am - 5:00 pm

Office Phones: (510) 885-3477

Faculty

Professor

Keri O'Neal (Human Development and Women's Studies) (Director), Ph.D. Texas Tech University

Program Statement

The Liberal Studies Major aims to provide a rich liberal art educational experience through selected courses from a wide range of academic disciplines, while at the same time allowing students to select a field for in-depth study of their own interest. The broad-based, interdisciplinary nature of Liberal Studies provides a solid well-rounded undergraduate educational experience, integrating knowledge from arts and humanities, social sciences, and natural sciences, with analytical and communication skills well suited for many careers and professions.

The major consists of a common core and a choice from seven concentrations, designed to meet diverse student interests and needs not only for school teaching, but also for leadership in government, non-profit organizations, and business, and for graduate education in law, counseling, social work and services, public affairs and administration, and educational leadership.

About the Program

Use our university website link to learn more about what the Liberal Studies Program has to offer.

- Teacher Preparation
- Liberal Arts
- Degree Roadmaps
- Program for Accelerated College Education
- And more...

Bachelor

Liberal Studies, B.A.: Early Childhood Development Concentration

Liberal Studies, B.A. Program (120 units)

Program Description

The Liberal Studies Major aims to provide a rich liberal art educational experience through selected courses from a wide range of academic disciplines, while at the same time allowing students to select a field for in-depth study of their own interest. The broad-based, interdisciplinary nature of Liberal Studies provides a solid well-rounded undergraduate educational experience, integrating knowledge from arts and humanities, social science, and natural sciences, with analytical and communication skills well suited for many careers and professions.

The major consists of a common core and a choice from seven concentrations, designed to meet diverse student interests and needs not only for school teaching, but also for leadership in government, non-profit organizations, and business, and for graduate education in law, counseling, social work and services, public affairs and administration, and educational leadership.

Program Learning Outcomes

Students graduating with a B.A. in Liberal Studies from Cal State East Bay will be able to:

- demonstrate solid understanding of major contemporary global issues about individuals, society, and nature, by integrating interdisciplinary knowledge of humanity, social science, and natural science, with more in depth understanding of one specialized subject area or discipline;
- apply methods of different disciplines to critically thinking about these issues;
- communicate ideas clearly and persuasively in speech and writing;
- work with others in teams collaboratively and productively, showing sensitivity and respect for others, and readiness to learn from others;
- demonstrate commitment to promoting social justice, diversity, democratic values, and sustainable environment.

Career Opportunities

Administrator • Business Executive • Customer Service Representative • Educational Leadership • Foreign Service Officer • Human Resources Administrator • Journalist • Lawyer • Manager • Nonprofit Organizations • Personnel Representative • Salesperson • Social and Human Services • Teacher (K-6, Pre-K, Early Childhood, Special Education) • Writer

Degree Requirements Unit-Outline

- A baccalaureate of arts degree requires a total of 120 units;
- The major requirements consists of 71-80 units
- General Education & Graduation Requirements consists of 57 units ;
- Free Electives may consist of 0 units (*actual number of free elective units may depend on GE/GR units*).

Note: It may be possible to double-count units within the graduation requirements or that a course may satisfy both a graduation requirement and a major requirement. Students should contact their program and AACE advisors for information.

Liberal Studies Major Requirements (71-80 units)

Core Requirements

Liberal Studies majors must complete the following 48-49 units of core coursework as outlined. *Please note that the core requirements also satisfy the upper-division GE requirements in areas C4, D4, and B6.*

Liberal Studies Courses

Students must take both of the following courses (6 units):

- LBST 201 - Introduction to Liberal Studies *Units: 3*
- LBST 499 - Liberal Studies Senior Seminar *Units: 3*

Humanities Courses

Students must take all of the following courses (10 units):

- ART 120 - Monuments of World Art *Units: 3 ; G.E./G.R. Area: C1*
- ENGL 204 - Writing About Literature *Units: 4 ; G.E./G.R. Area: C2*
- HIST 101 - World History I *Units: 3 ; G.E./G.R. Area: C2*

English, Math, and Expressive Basic Skills Courses

Students must take all of the following courses (10 units):

- ENGL 303 - Advanced Expository Writing *Units: 4*
- MATH 318 - Mathematical Contributions to Modern Society *Units: 3 ; G.E./G.R. Area: B6*
- THEA 341 - Dramatic Activities for Children *Units: 3 ; G.E./G.R. Area: C4*

Students must take one (1) of the following courses (4 units):

- ENGL 309 - Major Works of British Literature *Units: 4*
- ENGL 320 - Major Works of American Literature *Units: 4*

Social Science, Natural Science, and Critical Thinking Integration Courses

Students must take all of the following courses (9 units):

- ANTH 300 - Anthropology of Global Change *Units: 3 ; G.E./G.R. Area: D4*
- ENSC 320 - The Science of Global Change *Units: 3 ; G.E./G.R. Area: B6; Sustainability*
- PHIL 311 - Environmental Ethics *Units: 3 ; G.E./G.R. Area: C4; Sustainability*

Students must take one (1) of the following courses (3-4 units):

- CHEM 100 - Introduction to College Chemistry *Units: 3 ; G.E./G.R. Area: B1, B3*
- GEOL 100 - Earth Systems Science *Units: 4 ; G.E./G.R. Area: B1, B3; Sustainability*
- PHYS 115 - Elementary Physics *Units: 3 ; G.E./G.R. Area: B1, B3*

Human Development and Social Context Courses

Students must take both of the following courses (6 units):

- HDEV 381 - Interdisciplinary Perspectives on Lifespan Human Development
Units: 3
- HIST 382 - California and the World *Units: 3 ; G.E./G.R. Area: D4; US-3*

Concentrations

Liberal Studies majors must complete one (1) of the seven available concentrations in addition to the core requirements:

- Liberal Studies, B.A.: Early Childhood Development Concentration
- Liberal Studies, B.A.: Early Childhood Education Concentration
- Liberal Studies, B.A.: Foundational Mathematics Concentration
- Liberal Studies, B.A.: Foundational Science Concentration
- Liberal Studies, B.A.: Liberal Arts Concentration
- Liberal Studies, B.A.: Studies in Educational Psychology Concentration
- Liberal Studies, B.A.: Teacher Preparation Concentration

Early Childhood Development Concentration

The Early Childhood Development concentration is 25-27 units. Students must complete the following coursework as outlined:

Students must take one (1) of the following courses for 3-4 units:

- ANTH 110 - Introduction to Biological Anthropology *Units: 3 ; G.E./G.R. Area: B2*
- BIOL 100 - Biology in the Real World *Units: 4 ; G.E./G.R. Area: B2, B3*

Students must take one (1) of the following courses for 3 units:

- HIST 488 - Education and American Democracy *Units: 3 ; G.E./G.R. Area: C4*
- PHIL 371 - Philosophy of Education *Units: 3 ; G.E./G.R. Area: C4*

Students must take both of the following courses for 8 units:

- ENGL 463 - Children's Literature after 1900 *Units: 4*
- HDEV 413 - Children in Families and Communities *Units: 4*

Students must take 11-12 units from the following courses. At least five (5) of these units must come from upper-division courses:

- HDEV 411 - Early Childhood Cognitive Development: Theory and Research
Units: 4
- HDEV 412 - Early Childhood Social Development: Theory & Research *Units: 4*
- HDEV 414 - Creative and Artistic Development in Early Childhood *Units: 4*

- HDEV 423 - Child Language Development *Units: 4*
- SCI 308 - Hands-On Science Teaching *Units: 1*
- Any California Community College CAP certified course on child, family, and community.
- Any transferrable course in supervised field experience, curriculum, adult supervision or administration in ECE settings.

Other Undergraduate Degree Requirements

In addition to major requirements, every student must also complete the University's baccalaureate requirements for graduation, which are described in the Requirements, Exams & Testing chapter of this catalog.

Department Courses Listed by Course Type

Liberal Studies Courses

Liberal Studies Program

Go to information for this department.

Courses

Liberal Studies

- • LBST 201 - Introduction to Liberal Studies *Units: 3*
- • LBST 499 - Liberal Studies Senior Seminar *Units: 3*

Liberal Studies, B.A.: Early Childhood Education Concentration

Liberal Studies, B.A. Program (120 units)

Program Description

The Liberal Studies Major aims to provide a rich liberal art educational experience through selected courses from a wide range of academic disciplines, while at the same time allowing students to select a field for in-depth study of their own interest. The broad-based, interdisciplinary nature of Liberal Studies provides a solid well-rounded undergraduate educational experience, integrating knowledge from arts and humanities, social science, and natural sciences, with analytical and communication skills well suited for many careers and professions.

The major consists of a common core and a choice from seven concentrations, designed to meet diverse student interests and needs not only for school teaching, but also for leadership in government, non-profit organizations, and business, and for graduate education in law, counseling, social work and services, public affairs and administration, and educational leadership.

Program Learning Outcomes

Students graduating with a B.A. in Liberal Studies from Cal State East Bay will be able to:

- demonstrate solid understanding of major contemporary global issues about individuals, society, and nature, by integrating interdisciplinary knowledge of humanity, social science, and natural science, with more in depth understanding of one specialized subject area or discipline;
- apply methods of different disciplines to critically thinking about these issues;
- communicate ideas clearly and persuasively in speech and writing;
- work with others in teams collaboratively and productively, showing sensitivity and respect for others, and readiness to learn from others;
- demonstrate commitment to promoting social justice, diversity, democratic values, and sustainable environment.

Career Opportunities

Administrator • Business Executive • Customer Service Representative • Educational Leadership • Foreign Service Officer • Human Resources Administrator • Journalist • Lawyer • Manager • Nonprofit and Social Advocacy Organizations • Personnel Representative • Salesperson • Social and Human Services • Teacher (K-6, Pre-K, Early Childhood, Special Education) • Writer

Degree Requirements Unit-Outline

- A baccalaureate of arts degree requires a total of 120 units;
- The major requirements consists of 71-80 units
- General Education & Graduation Requirements consists of 57 units ;
- Free Electives may consist of 0 units (*actual number of free elective units may depend on GE/GR units*).

Note: It may be possible to double-count units within the graduation requirements or that a course may satisfy both a graduation requirement and a major requirement. Students should contact their program and AACE advisors for information.

Liberal Studies Major Requirements (71-80 units)

Core Requirements

Liberal Studies majors must complete the following 48-49 units of core coursework as outlined. *Please note that the core requirements also satisfy the upper-division GE requirements in areas C4, D4, and B6.*

Liberal Studies Courses

Students must take both of the following courses (6 units):

- LBST 201 - Introduction to Liberal Studies *Units: 3*
- LBST 499 - Liberal Studies Senior Seminar *Units: 3*

Humanities Courses

Students must take all of the following courses (10 units):

- ART 120 - Monuments of World Art *Units: 3 ; G.E./G.R. Area: C1*

- ENGL 204 - Writing About Literature *Units: 4 ; G.E./G.R. Area: C2*
- HIST 101 - World History I *Units: 3 ; G.E./G.R. Area: C2*

English, Math, and Expressive Basic Skills Courses

Students must take all of the following courses (10 units):

- ENGL 303 - Advanced Expository Writing *Units: 4*
- MATH 318 - Mathematical Contributions to Modern Society *Units: 3 ; G.E./G.R. Area: B6*
- THEA 341 - Dramatic Activities for Children *Units: 3 ; G.E./G.R. Area: C4*

Students must take one (1) of the following courses (4 units):

- ENGL 309 - Major Works of British Literature *Units: 4*
- ENGL 320 - Major Works of American Literature *Units: 4*

Social Science, Natural Science, and Critical Thinking Integration Courses

Students must take all of the following courses (9 units):

- ANTH 300 - Anthropology of Global Change *Units: 3 ; G.E./G.R. Area: D4*
- ENSC 320 - The Science of Global Change *Units: 3 ; G.E./G.R. Area: B6; Sustainability*
- PHIL 311 - Environmental Ethics *Units: 3 ; G.E./G.R. Area: C4; Sustainability*

Students must take one (1) of the following courses (3-4 units):

- CHEM 100 - Introduction to College Chemistry *Units: 3 ; G.E./G.R. Area: B1, B3*
- GEOL 100 - Earth Systems Science *Units: 4 ; G.E./G.R. Area: B1, B3; Sustainability*
- PHYS 115 - Elementary Physics *Units: 3 ; G.E./G.R. Area: B1, B3*

Human Development and Social Context Courses

Students must take both of the following courses (6 units):

- HDEV 381 - Interdisciplinary Perspectives on Lifespan Human Development *Units: 3*
- HIST 382 - California and the World *Units: 3 ; G.E./G.R. Area: D4; US-3*

Concentrations

Liberal Studies majors must complete one (1) of the seven available concentrations in addition to the core requirements:

- Liberal Studies, B.A.: Early Childhood Development Concentration
- Liberal Studies, B.A.: Early Childhood Education Concentration
- Liberal Studies, B.A.: Foundational Mathematics Concentration
- Liberal Studies, B.A.: Foundational Science Concentration
- Liberal Studies, B.A.: Liberal Arts Concentration
- Liberal Studies, B.A.: Studies in Educational Psychology Concentration
- Liberal Studies, B.A.: Teacher Preparation Concentration

Early Childhood Education Concentration

The Early Childhood Education concentration is 26-27 units. Students must complete the following courses as outlined:

Students must take one (1) of the following courses for 3-4 units:

- ANTH 110 - Introduction to Biological Anthropology *Units: 3 ; G.E./G.R. Area: B2*
- BIOL 100 - Biology in the Real World *Units: 4 ; G.E./G.R. Area: B2, B3*

Students must take one (1) of the following courses for 3 units:

- HIST 488 - Education and American Democracy *Units: 3 ; G.E./G.R. Area: C4*
- PHIL 371 - Philosophy of Education *Units: 3 ; G.E./G.R. Area: C4*

Students must take all of the following courses for 20 units:

- ENGL 463 - Children's Literature after 1900 *Units: 4*
- TED 470 - Early Childhood Education: Integrated Language & Literacy Development *Units: 3*
- TED 471 - Early Childhood Education: Integrated Math and Science *Units: 3*
- TED 472 - Early Childhood Education: Integrated Arts and Social Studies *Units: 3*
- TED 473 - Early Childhood Education: Inclusive Practices *Units: 3*
- TED 474 - Early Childhood Education: Professional Seminar and Practicum *Units: 4*

Other Undergraduate Degree Requirements

In addition to major requirements, every student must also complete the University's baccalaureate requirements for graduation, which are described in the Requirements, Exams & Testing chapter of this catalog.

Department Courses Listed by Course Type

Liberal Studies Courses

Liberal Studies Program

Go to information for this department.

Courses

Liberal Studies

- • LBST 201 - Introduction to Liberal Studies *Units: 3*
- • LBST 499 - Liberal Studies Senior Seminar *Units: 3*

Liberal Studies, B.A.: Foundational Mathematics Concentration

Liberal Studies, B.A. Program (120 units)

Program Description

The Liberal Studies Major aims to provide a rich liberal art educational experience through selected courses from a wide range of academic disciplines, while at the same time allowing students to select a field for in-depth study of their own interest. The broad-based, interdisciplinary nature of Liberal Studies provides a solid well-rounded undergraduate educational experience, integrating knowledge from arts and humanities, social science, and natural sciences, with analytical and communication skills well suited for many careers and professions.

The major consists of a common core and a choice from seven concentrations, designed to meet diverse student interests and needs not only for school teaching, but also for leadership in government, non-profit organizations, and business, and for graduate education in law, counseling, social work and services, public affairs and administration, and educational leadership.

Program Learning Outcomes

Students graduating with a B.A. in Liberal Studies from Cal State East Bay will be able to:

- demonstrate solid understanding of major contemporary global issues about individuals, society, and nature, by integrating interdisciplinary knowledge of humanity, social science, and natural science, with more in depth understanding of one specialized subject area or discipline;
- apply methods of different disciplines to critically thinking about these issues;
- communicate ideas clearly and persuasively in speech and writing;
- work with others in teams collaboratively and productively, showing sensitivity and respect for others, and readiness to learn from others;
- demonstrate commitment to promoting social justice, diversity, democratic values, and sustainable environment.

Career Opportunities

Administrator • Business Executive • Customer Service Representative • Educational Leadership • Foreign Service Officer • Human Resources Administrator • Journalist • Lawyer • Manager • Nonprofit Organizations • Personnel Representative • Salesperson • Social and Human Services • Teacher (K-6, Pre-K, Early Childhood, Special Education) • Writer

Degree Requirements Unit-Outline

- A baccalaureate of arts degree requires a total of 120 units;
 - The major requirements consists of 71-80 units
 - General Education & Graduation Requirements consists of 57 units ;
 - Free Electives may consist of 0 units (*actual number of free elective units may depend on GE/GR units*).
- Note: It may be possible to double-count units within the graduation requirements or that a course may satisfy both a graduation requirement and a major requirement. Students should contact their program and AACE advisors for information.*

Liberal Studies Major Requirements (71-80 units)

Core Requirements

Liberal Studies majors must complete the following 48-49 units of core coursework as outlined. *Please note that the core requirements also satisfy the upper-division GE requirements in areas C4, D4, and B6.*

Liberal Studies Courses

Students must take both of the following courses (6 units):

- LBST 201 - Introduction to Liberal Studies *Units: 3*
- LBST 499 - Liberal Studies Senior Seminar *Units: 3*

Humanities Courses

Students must take all of the following courses (10 units):

- ART 120 - Monuments of World Art *Units: 3 ; G.E./G.R. Area: C1*
- ENGL 204 - Writing About Literature *Units: 4 ; G.E./G.R. Area: C2*
- HIST 101 - World History I *Units: 3 ; G.E./G.R. Area: C2*

English, Math, and Expressive Basic Skills Courses

Students must take all of the following courses (10 units):

- ENGL 303 - Advanced Expository Writing *Units: 4*
- MATH 318 - Mathematical Contributions to Modern Society *Units: 3 ; G.E./G.R. Area: B6*
- THEA 341 - Dramatic Activities for Children *Units: 3 ; G.E./G.R. Area: C4*

Students must take one (1) of the following courses (4 units):

- ENGL 309 - Major Works of British Literature *Units: 4*
- ENGL 320 - Major Works of American Literature *Units: 4*

Social Science, Natural Science, and Critical Thinking Integration Courses

Students must take all of the following courses (9 units):

- ANTH 300 - Anthropology of Global Change *Units: 3 ; G.E./G.R. Area: D4*
- ENSC 320 - The Science of Global Change *Units: 3 ; G.E./G.R. Area: B6; Sustainability*
- PHIL 311 - Environmental Ethics *Units: 3 ; G.E./G.R. Area: C4; Sustainability*

Students must take one (1) of the following courses (3-4 units):

- CHEM 100 - Introduction to College Chemistry *Units: 3 ; G.E./G.R. Area: B1, B3*
- GEOL 100 - Earth Systems Science *Units: 4 ; G.E./G.R. Area: B1, B3; Sustainability*
- PHYS 115 - Elementary Physics *Units: 3 ; G.E./G.R. Area: B1, B3*

Human Development and Social Context Courses

Students must take both of the following courses (6 units):

- HDEV 381 - Interdisciplinary Perspectives on Lifespan Human Development *Units: 3*
- HIST 382 - California and the World *Units: 3 ; G.E./G.R. Area: D4; US-3*

Concentrations

Liberal Studies majors must complete one (1) of the seven available concentrations in addition to the core requirements:

- Liberal Studies, B.A.: Early Childhood Development Concentration
- Liberal Studies, B.A.: Early Childhood Education Concentration
- Liberal Studies, B.A.: Foundational Mathematics Concentration
- Liberal Studies, B.A.: Foundational Science Concentration
- Liberal Studies, B.A.: Liberal Arts Concentration
- Liberal Studies, B.A.: Studies in Educational Psychology Concentration
- Liberal Studies, B.A.: Teacher Preparation Concentration

Foundational Mathematics Concentration

The Foundational Mathematics concentration is 31 units. Students must complete the following as outlined:

Students must take one (1) of the following courses for 3 units:

- HIST 488 - Education and American Democracy *Units: 3 ; G.E./G.R. Area: C4*
- PHIL 371 - Philosophy of Education *Units: 3 ; G.E./G.R. Area: C4*

Students must take all of the following courses for 28 units:

- BIOL 100 - Biology in the Real World *Units: 4 ; G.E./G.R. Area: B2, B3*
- MATH 120 - Precalculus *Units: 3 ; G.E./G.R. Area: B4*
- MATH 130 - Calculus I *Units: 4 ; G.E./G.R. Area: B4*
- MATH 402 - Mathematics for K-8 Educators I *Units: 4*
- MATH 403 - Mathematics for K-8 Educators II *Units: 4*
- MATH 406 - Advanced Study for School Mathematics *Units: 3*
- STAT 100 - Elements of Statistics and Probability *Units: 3 ; G.E./G.R. Area: B4*
- TED 301 - Introduction to Education *Units: 3*

Other Undergraduate Degree Requirements

In addition to major requirements, every student must also complete the University's baccalaureate requirements for graduation, which are described in the Requirements, Exams & Testing chapter of this catalog.

Department Courses Listed by Course Type

Liberal Studies Courses

Liberal Studies Program

Go to information for this department.

Courses

Liberal Studies

- • LBST 201 - Introduction to Liberal Studies *Units: 3*
- • LBST 499 - Liberal Studies Senior Seminar *Units: 3*

Liberal Studies, B.A.: Foundational Science Concentration

Liberal Studies, B.A. Program (120 units)

Program Description

The Liberal Studies Major aims to provide a rich liberal art educational experience through selected courses from a wide range of academic disciplines, while at the same time allowing students to select a field for in-depth study of their own interest. The broad-based, interdisciplinary nature of Liberal Studies provides a solid well-rounded undergraduate educational experience, integrating knowledge from arts and humanities, social science, and natural sciences, with analytical and communication skills well suited for many careers and professions.

The major consists of a common core and a choice from seven concentrations, designed to meet diverse student interests and needs not only for school teaching, but also for leadership in government, non-profit organizations, and business, and for graduate education in law, counseling, social work and services, public affairs and administration, and educational leadership.

Program Learning Outcomes

Students graduating with a B.A. in Liberal Studies from Cal State East Bay will be able to:

- demonstrate solid understanding of major contemporary global issues about individuals, society, and nature, by integrating interdisciplinary knowledge of humanity, social science, and natural science, with more in depth understanding of one specialized subject area or discipline;
- apply methods of different disciplines to critically thinking about these issues;
- communicate ideas clearly and persuasively in speech and writing;
- work with others in teams collaboratively and productively, showing sensitivity and respect for others, and readiness to learn from others;
- demonstrate commitment to promoting social justice, diversity, democratic values, and sustainable environment.

Career Opportunities

Administrator • Business Executive • Customer Service Representative • Educational
Leadership • Foreign Service Officer • Human Resources
Administrator • Journalist • Lawyer • Manager • Nonprofit and Social Advocacy
Organizations • Personnel Representative • Salesperson • Social and Human Services • Teacher (K-6, Pre-
K, Early Childhood, Special Education) • Writer

Degree Requirements Unit-Outline

- A baccalaureate of arts degree requires a total of 120 units;
 - The major requirements consists of 71-80 units
 - General Education & Graduation Requirements consists of 57 units ;
 - Free Electives may consist of 0 units (*actual number of free elective units may depend on GE/GR units*).
- Note: It may be possible to double-count units within the graduation requirements or that a course may satisfy both a graduation requirement and a major requirement. Students should contact their program and AACE advisors for information.*

Liberal Studies Major Requirements (71-80 units)

Core Requirements

Liberal Studies majors must complete the following 48-49 units of core coursework as outlined. *Please note that the core requirements also satisfy the upper-division GE requirements in areas C4, D4, and B6.*

Liberal Studies Courses

Students must take both of the following courses (6 units):

- LBST 201 - Introduction to Liberal Studies *Units: 3*
- LBST 499 - Liberal Studies Senior Seminar *Units: 3*

Humanities Courses

Students must take all of the following courses (10 units):

- ART 120 - Monuments of World Art *Units: 3 ; G.E./G.R. Area: C1*
- ENGL 204 - Writing About Literature *Units: 4 ; G.E./G.R. Area: C2*
- HIST 101 - World History I *Units: 3 ; G.E./G.R. Area: C2*

English, Math, and Expressive Basic Skills Courses

Students must take all of the following courses (10 units):

- ENGL 303 - Advanced Expository Writing *Units: 4*
- MATH 318 - Mathematical Contributions to Modern Society *Units: 3 ; G.E./G.R. Area: B6*
- THEA 341 - Dramatic Activities for Children *Units: 3 ; G.E./G.R. Area: C4*

Students must take one (1) of the following courses (4 units):

- ENGL 309 - Major Works of British Literature *Units: 4*
- ENGL 320 - Major Works of American Literature *Units: 4*

Social Science, Natural Science, and Critical Thinking Integration Courses

Students must take all of the following courses (9 units):

- ANTH 300 - Anthropology of Global Change *Units: 3 ; G.E./G.R. Area: D4*
- ENSC 320 - The Science of Global Change *Units: 3 ; G.E./G.R. Area: B6; Sustainability*
- PHIL 311 - Environmental Ethics *Units: 3 ; G.E./G.R. Area: C4; Sustainability*

Students must take one (1) of the following courses (3-4 units):

- CHEM 100 - Introduction to College Chemistry *Units: 3 ; G.E./G.R. Area: B1, B3*

- **GEOL 100 - Earth Systems Science** *Units: 4 ; G.E./G.R. Area: B1, B3; Sustainability*
 - **PHYS 115 - Elementary Physics** *Units: 3 ; G.E./G.R. Area: B1, B3*
- Human Development and Social Context Courses**

Students must take both of the following courses (6 units):

- **HDEV 381 - Interdisciplinary Perspectives on Lifespan Human Development**
Units: 3
- **HIST 382 - California and the World** *Units: 3 ; G.E./G.R. Area: D4; US-3*

Concentrations

Liberal Studies majors must complete one (1) of the seven available concentrations in addition to the core requirements:

- Liberal Studies, B.A.: Early Childhood Development Concentration
- Liberal Studies, B.A.: Early Childhood Education Concentration
- Liberal Studies, B.A.: Foundational Mathematics Concentration
- Liberal Studies, B.A.: Foundational Science Concentration
- Liberal Studies, B.A.: Liberal Arts Concentration
- Liberal Studies, B.A.: Studies in Educational Psychology Concentration
- Liberal Studies, B.A.: Teacher Preparation Concentration

Foundational Science Concentration

The Foundational Science concentration is 30-31 units. Students must complete the following as outlined:

Students must take two (2) of the following courses for 6-7 units. Do not repeat a course used in the Liberal Studies Core:

- **CHEM 100 - Introduction to College Chemistry** *Units: 3 ; G.E./G.R. Area: B1, B3*
- **GEOL 100 - Earth Systems Science** *Units: 4 ; G.E./G.R. Area: B1, B3; Sustainability*
- **PHYS 115 - Elementary Physics** *Units: 3 ; G.E./G.R. Area: B1, B3*

Students must take one (1) of the following courses for 3 units:

- **HIST 488 - Education and American Democracy** *Units: 3 ; G.E./G.R. Area: C4*
- **PHIL 371 - Philosophy of Education** *Units: 3 ; G.E./G.R. Area: C4*

Students must take all of the following courses for 21 units:

- **BIOL 100 - Biology in the Real World** *Units: 4 ; G.E./G.R. Area: B2, B3*
- **BIOL 301 - Biology Connections** *Units: 3*
- **BIOL 302 - Biology Connections Laboratory** *Units: 1*
- **CHEM 301 - Chemistry Connections** *Units: 3 ; G.E./G.R. Area: B6*
- **CHEM 302 - Chemistry Connections Laboratory** *Units: 1*
- **GEOL 301 - Earth Science Connections** *Units: 3*
- **GEOL 302 - Earth Science Connections Laboratory** *Units: 1*
- **PHYS 301 - Physics Connections** *Units: 3 ; G.E./G.R. Area: B6*
- **PHYS 302 - Physics Connections Laboratory** *Units: 1*

- SCI 308 - Hands-On Science Teaching *Units: 1*

Other Undergraduate Degree Requirements

In addition to major requirements, every student must also complete the University's baccalaureate requirements for graduation, which are described in the Requirements, Exams & Testing chapter of this catalog.

Department Courses Listed by Course Type

Liberal Studies Courses

Liberal Studies Program

Go to information for this department.

Courses

Liberal Studies

- • LBST 201 - Introduction to Liberal Studies *Units: 3*
- • LBST 499 - Liberal Studies Senior Seminar *Units: 3*

Liberal Studies, B.A.: Liberal Arts Concentration

Liberal Studies, B.A. Program (120 units)

Program Description

The Liberal Studies Major aims to provide a rich liberal art educational experience through selected courses from a wide range of academic disciplines, while at the same time allowing students to select a field for in-depth study of their own interest. The broad-based, interdisciplinary nature of Liberal Studies provides a solid well-rounded undergraduate educational experience, integrating knowledge from arts and humanities, social science, and natural sciences, with analytical and communication skills well suited for many careers and professions.

The major consists of a common core and a choice from seven concentrations, designed to meet diverse student interests and needs not only for school teaching, but also for leadership in government, non-profit organizations, and business, and for graduate education in law, counseling, social work and services, public affairs and administration, and educational leadership.

Program Learning Outcomes

Students graduating with a B.A. in Liberal Studies from Cal State East Bay will be able to:

- demonstrate solid understanding of major contemporary global issues about individuals, society, and nature, by integrating interdisciplinary knowledge of humanity, social science, and natural science, with more in depth understanding of one specialized subject area or discipline;
- apply methods of different disciplines to critically thinking about these issues;
- communicate ideas clearly and persuasively in speech and writing;
- work with others in teams collaboratively and productively, showing sensitivity and respect for others, and readiness to learn from others;
- demonstrate commitment to promoting social justice, diversity, democratic values, and sustainable environment.

Career Opportunities

Administrator • Business Executive • Customer Service Representative • Educational Leadership • Foreign Service Officer • Human Resources Administrator • Journalist • Lawyer • Manager • Nonprofit and Social Advocacy Organizations • Personnel Representative • Salesperson • Social and Human Services • Teacher (K-6, Pre-K, Early Childhood, Special Education) • Writer

Degree Requirements Unit-Outline

- A baccalaureate of arts degree requires a total of 120 units:
 - The major requirements consists of 71-80 units
 - General Education & Graduation Requirements consists of 57 units ;
 - Free Electives may consist of 0 units (*actual number of free elective units may depend on GE/GR units*).
- Note: It may be possible to double-count units within the graduation requirements or that a course may satisfy both a graduation requirement and a major requirement. Students should contact their program and AACE advisors for information.*

Liberal Studies Major Requirements (71-80 units)

Core Requirements

Liberal Studies majors must complete the following 48-49 units of core coursework as outlined. *Please note that the core requirements also satisfy the upper-division GE requirements in areas C4, D4, and B6.*

Liberal Studies Courses

Students must take both of the following courses (6 units):

- LBST 201 - Introduction to Liberal Studies *Units: 3*
- LBST 499 - Liberal Studies Senior Seminar *Units: 3*

Humanities Courses

Students must take all of the following courses (10 units):

- ART 120 - Monuments of World Art *Units: 3 ; G.E./G.R. Area: C1*
- ENGL 204 - Writing About Literature *Units: 4 ; G.E./G.R. Area: C2*
- HIST 101 - World History I *Units: 3 ; G.E./G.R. Area: C2*

English, Math, and Expressive Basic Skills Courses

Students must take all of the following courses (10 units):

- ENGL 303 - Advanced Expository Writing *Units: 4*
- MATH 318 - Mathematical Contributions to Modern Society *Units: 3 ; G.E./G.R. Area: B6*
- THEA 341 - Dramatic Activities for Children *Units: 3 ; G.E./G.R. Area: C4*

Students must take one (1) of the following courses (4 units):

- ENGL 309 - Major Works of British Literature *Units: 4*
- ENGL 320 - Major Works of American Literature *Units: 4*

Social Science, Natural Science, and Critical Thinking Integration Courses

Students must take all of the following courses (9 units):

- ANTH 300 - Anthropology of Global Change *Units: 3 ; G.E./G.R. Area: D4*
- ENSC 320 - The Science of Global Change *Units: 3 ; G.E./G.R. Area: B6; Sustainability*
- PHIL 311 - Environmental Ethics *Units: 3 ; G.E./G.R. Area: C4; Sustainability*

Students must take one (1) of the following courses (3-4 units):

- CHEM 100 - Introduction to College Chemistry *Units: 3 ; G.E./G.R. Area: B1, B3*
- GEOL 100 - Earth Systems Science *Units: 4 ; G.E./G.R. Area: B1, B3; Sustainability*
- PHYS 115 - Elementary Physics *Units: 3 ; G.E./G.R. Area: B1, B3*

Human Development and Social Context Courses

Students must take both of the following courses (6 units):

- HDEV 381 - Interdisciplinary Perspectives on Lifespan Human Development *Units: 3*
- HIST 382 - California and the World *Units: 3 ; G.E./G.R. Area: D4; US-3*

Concentrations

Liberal Studies majors must complete one (1) of the seven available concentrations in addition to the core requirements:

- Liberal Studies, B.A.: Early Childhood Development Concentration
- Liberal Studies, B.A.: Early Childhood Education Concentration
- Liberal Studies, B.A.: Foundational Mathematics Concentration
- Liberal Studies, B.A.: Foundational Science Concentration
- Liberal Studies, B.A.: Liberal Arts Concentration
- Liberal Studies, B.A.: Studies in Educational Psychology Concentration
- Liberal Studies, B.A.: Teacher Preparation Concentration

Liberal Arts Concentration

The Liberal Arts concentration is 25-26 units. Students must complete the following coursework as outlined below:

Students must take one (1) of the following two courses for 3-4 units:

- ANTH 110 - Introduction to Biological Anthropology *Units: 3 ; G.E./G.R. Area: B2*
- BIOL 100 - Biology in the Real World *Units: 4 ; G.E./G.R. Area: B2, B3*

Students must take one (1) of the following courses for 4 units:

- ENGL 321 - American Indian Literature *Units: 4 ; G.E./G.R. Area: C4*
- ENGL 322 - African-American Literature Before 1945 *Units: 4 ; G.E./G.R. Area: C4; Social Justice*
- ENGL 323 - African-American Literature After 1945 *Units: 4 ; G.E./G.R. Area: C4; Diversity*
- ENGL 324 - American Women's Literature *Units: 4 ; G.E./G.R. Area: C4; Social Justice*
- ENGL 328 - Latina/o Literature *Units: 4 ; G.E./G.R. Area: C4*
- ENGL 327 - LGBT Literature and Queer Theory *Units: 4 ; G.E./G.R. Area: C4; Social Justice*
- ENGL 330 - Classical Literature *Units: 4*
- ENGL 331 - Global World Literature: Antiquity to the Early Modern World *Units: 4*

Students must take the following course for 3 units:

- HIST 389 - Social Justice and Reform Movements in America *Units: 3 ; G.E./G.R. Area: D4; Social Justice*

Depth of Study Coursework

Students must complete either A or B for a minimum of 15 units:

Depth of Study A.

Students may create a special depth of study with the help of an advisor. All fifteen (15) units must be unique and cannot be used to satisfy any other components of the Liberal Studies major. At least twelve (12) units must be upper-division. GS courses may not be used for this requirement.

Depth of Study B.

Select any Minor offered by any department or program in the CSUEB catalog. At least fifteen (15) units in the minor must be unique and cannot be used to satisfy any other components of the Liberal Studies major.

Other Undergraduate Degree Requirements

In addition to major requirements, every student must also complete the University's baccalaureate requirements for graduation, which are described in the Requirements, Exams & Testing chapter of this catalog.

Department Courses Listed by Course Type

Liberal Studies Courses

Liberal Studies Program

Go to information for this department.

Courses

Liberal Studies

- • LBST 201 - Introduction to Liberal Studies *Units: 3*
- • LBST 499 - Liberal Studies Senior Seminar *Units: 3*

Liberal Studies, B.A.: Studies in Educational Psychology Concentration

Liberal Studies, B.A. Program (120 units)

Program Description

The Liberal Studies Major aims to provide a rich liberal art educational experience through selected courses from a wide range of academic disciplines, while at the same time allowing students to select a field for in-depth study of their own interest. The broad-based, interdisciplinary nature of Liberal Studies provides a solid well-rounded undergraduate educational experience, integrating knowledge from arts and humanities, social science, and natural sciences, with analytical and communication skills well suited for many careers and professions.

The major consists of a common core and a choice from seven concentrations, designed to meet diverse student interests and needs not only for school teaching, but also for leadership in government, non-profit organizations, and business, and for graduate education in law, counseling, social work and services, public affairs and administration, and educational leadership.

Program Learning Outcomes

Students graduating with a B.A. in Liberal Studies from Cal State East Bay will be able to:

- demonstrate solid understanding of major contemporary global issues about individuals, society, and nature, by integrating interdisciplinary knowledge of humanity, social science, and natural science, with more in depth understanding of one specialized subject area or discipline;
- apply methods of different disciplines to critically thinking about these issues;
- communicate ideas clearly and persuasively in speech and writing;
- work with others in teams collaboratively and productively, showing sensitivity and respect for others, and readiness to learn from others;
- demonstrate commitment to promoting social justice, diversity, democratic values, and sustainable environment.

Career Opportunities

Administrator • Business Leadership • Foreign Administrator • Journalist • Lawyer • Manager • Nonprofit	Executive • Customer Service Manager • Nonprofit	Service Officer • Human and	Representative • Educational Social Advocacy

Organizations • Personnel Representative • Salesperson • Social and Human Services • Teacher (K-6, Pre-K, Early Childhood, Special Education) • Writer

Degree Requirements Unit-Outline

- A baccalaureate of arts degree requires a total of 120 units:
- The major requirements consists of 71-80 units
- General Education & Graduation Requirements consists of 57 units ;
- Free Electives may consist of 0 units (*actual number of free elective units may depend on GE/GR units*).

Note: It may be possible to double-count units within the graduation requirements or that a course may satisfy both a graduation requirement and a major requirement. Students should contact their program and AACE advisors for information.

Liberal Studies Major Requirements (71-80 units)

Core Requirements

Liberal Studies majors must complete the following 48-49 units of core coursework as outlined. *Please note that the core requirements also satisfy the upper-division GE requirements in areas C4, D4, and B6.*

Liberal Studies Courses

Students must take both of the following courses (6 units):

- LBST 201 - Introduction to Liberal Studies *Units: 3*
- LBST 499 - Liberal Studies Senior Seminar *Units: 3*

Humanities Courses

Students must take all of the following courses (10 units):

- ART 120 - Monuments of World Art *Units: 3 ; G.E./G.R. Area: C1*
- ENGL 204 - Writing About Literature *Units: 4 ; G.E./G.R. Area: C2*
- HIST 101 - World History I *Units: 3 ; G.E./G.R. Area: C2*

English, Math, and Expressive Basic Skills Courses

Students must take all of the following courses (10 units):

- ENGL 303 - Advanced Expository Writing *Units: 4*
- MATH 318 - Mathematical Contributions to Modern Society *Units: 3 ; G.E./G.R. Area: B6*
- THEA 341 - Dramatic Activities for Children *Units: 3 ; G.E./G.R. Area: C4*

Students must take one (1) of the following courses (4 units):

- ENGL 309 - Major Works of British Literature *Units: 4*
- ENGL 320 - Major Works of American Literature *Units: 4*

Social Science, Natural Science, and Critical Thinking Integration Courses

Students must take all of the following courses (9 units):

- ANTH 300 - Anthropology of Global Change *Units: 3 ; G.E./G.R. Area: D4*

- ENSC 320 - The Science of Global Change *Units: 3 ; G.E./G.R. Area: B6; Sustainability*
- PHIL 311 - Environmental Ethics *Units: 3 ; G.E./G.R. Area: C4; Sustainability*

Students must take one (1) of the following courses (3-4 units):

- CHEM 100 - Introduction to College Chemistry *Units: 3 ; G.E./G.R. Area: B1, B3*
- GEOL 100 - Earth Systems Science *Units: 4 ; G.E./G.R. Area: B1, B3; Sustainability*
- PHYS 115 - Elementary Physics *Units: 3 ; G.E./G.R. Area: B1, B3*

Human Development and Social Context Courses

Students must take both of the following courses (6 units):

- HDEV 381 - Interdisciplinary Perspectives on Lifespan Human Development
Units: 3
- HIST 382 - California and the World *Units: 3 ; G.E./G.R. Area: D4; US-3*

Concentrations

Liberal Studies majors must complete one (1) of the seven available concentrations in addition to the core requirements:

- Liberal Studies, B.A.: Early Childhood Development Concentration
- Liberal Studies, B.A.: Early Childhood Education Concentration
- Liberal Studies, B.A.: Foundational Mathematics Concentration
- Liberal Studies, B.A.: Foundational Science Concentration
- Liberal Studies, B.A.: Liberal Arts Concentration
- Liberal Studies, B.A.: Studies in Educational Psychology Concentration
- Liberal Studies, B.A.: Teacher Preparation Concentration

Studies in Educational Psychology Concentration

The Studies in Educational Psychology concentration is 23-25 units. Students must complete the following as outlined:

Students must take one (1) of the following courses for 3-4 units:

- ANTH 110 - Introduction to Biological Anthropology *Units: 3 ; G.E./G.R. Area: B2*
- BIOL 100 - Biology in the Real World *Units: 4 ; G.E./G.R. Area: B2, B3*

Students must take one (1) of the following courses for 3 units:

- HIST 488 - Education and American Democracy *Units: 3 ; G.E./G.R. Area: C4*
- PHIL 371 - Philosophy of Education *Units: 3 ; G.E./G.R. Area: C4*

Students must take one (1) of the following courses for 3-4 units:

- DANC 341 - Dance for Children *Units: 3 ; G.E./G.R. Area: C4*
- HDEV 423 - Child Language Development *Units: 4*
- HSC 440 - Global Health and Disability *Units: 3 ; G.E./G.R. Area: D4; Social Justice*
- KIN 321 - Elementary Classroom Teachers as Movement Educators *Units: 4*
- SPPA 300 - Communicative and Cognitive Development Across the Lifespan
Units: 3

- SPPA 304 - Introduction to Communication Disorders *Units: 3*

Students must take all of the following courses for 14 units:

- ENGL 463 - Children's Literature after 1900 *Units: 4*
- EPSY 230 - Strategies for Lifespan Mental Health *Units: 3*
- EPSY 301 - Orientation to Careers in Counseling *Units: 3*
- SPED 500 - Educating All Learners in Diverse Classrooms *Units: 4*

Other Undergraduate Degree Requirements

In addition to major requirements, every student must also complete the University's baccalaureate requirements for graduation, which are described in the Requirements, Exams & Testing chapter of this catalog.

Department Courses Listed by Course Type

Liberal Studies Courses

Liberal Studies Program

Go to information for this department.

Courses

Liberal Studies

- • LBST 201 - Introduction to Liberal Studies *Units: 3*
- • LBST 499 - Liberal Studies Senior Seminar *Units: 3*

Liberal Studies, B.A.: Teacher Preparation Concentration

Liberal Studies, B.A. Program (120 units)

Program Description

The Liberal Studies Major aims to provide a rich liberal art educational experience through selected courses from a wide range of academic disciplines, while at the same time allowing students to select a field for in-depth study of their own interest. The broad-based, interdisciplinary nature of Liberal Studies provides a solid well-rounded undergraduate educational experience, integrating knowledge from arts and humanities, social science, and natural sciences, with analytical and communication skills well suited for many careers and professions.

The major consists of a common core and a choice from seven concentrations, designed to meet diverse student interests and needs not only for school teaching, but also for leadership in government, non-profit organizations, and business, and for graduate education in law, counseling, social work and services, public affairs and administration, and educational leadership.

Program Learning Outcomes

Students graduating with a B.A. in Liberal Studies from Cal State East Bay will be able to:

- demonstrate solid understanding of major contemporary global issues about individuals, society, and nature, by integrating interdisciplinary knowledge of humanity, social science, and natural science, with more in depth understanding of one specialized subject area or discipline;
- apply methods of different disciplines to critically thinking about these issues;
- communicate ideas clearly and persuasively in speech and writing;
- work with others in teams collaboratively and productively, showing sensitivity and respect for others, and readiness to learn from others;
- demonstrate commitment to promoting social justice, diversity, democratic values, and sustainable environment.

Career Opportunities

Administrator • Business Executive • Customer Service Representative • Educational Leadership • Foreign Service Officer • Human Resources Administrator • Journalist • Lawyer • Manager • Nonprofit Organizations • Personnel Representative • Salesperson • Social and Human Services • Teacher (K-6, Pre-K, Early Childhood, Special Education) • Writer

Degree Requirements Unit-Outline

- A baccalaureate of arts degree requires a total of 120 units;
- The major requirements consists of 71-80 units
- General Education & Graduation Requirements consists of 57 units ;
- Free Electives may consist of 0 units (*actual number of free elective units may depend on GE/GR units*).

Note: It may be possible to double-count units within the graduation requirements or that a course may satisfy both a graduation requirement and a major requirement. Students should contact their program and AACE advisors for information.

Liberal Studies Major Requirements (71-80 units)

Core Requirements

Liberal Studies majors must complete the following 48-49 units of core coursework as outlined. *Please note that the core requirements also satisfy the upper-division GE requirements in areas C4, D4, and B6.*

Liberal Studies Courses

Students must take both of the following courses (6 units):

- LBST 201 - Introduction to Liberal Studies *Units: 3*
- LBST 499 - Liberal Studies Senior Seminar *Units: 3*

Humanities Courses

Students must take all of the following courses (10 units):

- ART 120 - Monuments of World Art *Units: 3 ; G.E./G.R. Area: C1*
- ENGL 204 - Writing About Literature *Units: 4 ; G.E./G.R. Area: C2*
- HIST 101 - World History I *Units: 3 ; G.E./G.R. Area: C2*

English, Math, and Expressive Basic Skills Courses

Students must take all of the following courses (10 units):

- ENGL 303 - Advanced Expository Writing *Units: 4*
- MATH 318 - Mathematical Contributions to Modern Society *Units: 3 ; G.E./G.R. Area: B6*
- THEA 341 - Dramatic Activities for Children *Units: 3 ; G.E./G.R. Area: C4*

Students must take one (1) of the following courses (4 units):

- ENGL 309 - Major Works of British Literature *Units: 4*
- ENGL 320 - Major Works of American Literature *Units: 4*

Social Science, Natural Science, and Critical Thinking Integration Courses

Students must take all of the following courses (9 units):

- ANTH 300 - Anthropology of Global Change *Units: 3 ; G.E./G.R. Area: D4*
- ENSC 320 - The Science of Global Change *Units: 3 ; G.E./G.R. Area: B6; Sustainability*
- PHIL 311 - Environmental Ethics *Units: 3 ; G.E./G.R. Area: C4; Sustainability*

Students must take one (1) of the following courses (3-4 units):

- CHEM 100 - Introduction to College Chemistry *Units: 3 ; G.E./G.R. Area: B1, B3*
- GEOL 100 - Earth Systems Science *Units: 4 ; G.E./G.R. Area: B1, B3; Sustainability*
- PHYS 115 - Elementary Physics *Units: 3 ; G.E./G.R. Area: B1, B3*

Human Development and Social Context Courses

Students must take both of the following courses (6 units):

- HDEV 381 - Interdisciplinary Perspectives on Lifespan Human Development *Units: 3*
- HIST 382 - California and the World *Units: 3 ; G.E./G.R. Area: D4; US-3*

Concentrations

Liberal Studies majors must complete one (1) of the seven available concentrations in addition to the core requirements:

- Liberal Studies, B.A.: Early Childhood Development Concentration
- Liberal Studies, B.A.: Early Childhood Education Concentration
- Liberal Studies, B.A.: Foundational Mathematics Concentration
- Liberal Studies, B.A.: Foundational Science Concentration
- Liberal Studies, B.A.: Liberal Arts Concentration
- Liberal Studies, B.A.: Studies in Educational Psychology Concentration
- Liberal Studies, B.A.: Teacher Preparation Concentration

Teacher Preparation Concentration

The Teacher Preparation concentration is 25-26 units. Students must complete the following coursework as outlined below:

Students must take all of the following courses for 16 units:

- BIOL 100 - Biology in the Real World *Units: 4 ; G.E./G.R. Area: B2, B3*
- ENGL 463 - Children's Literature after 1900 *Units: 4*
- HIST 488 - Education and American Democracy *Units: 3 ; G.E./G.R. Area: C4*
- KIN 321 - Elementary Classroom Teachers as Movement Educators *Units: 4*
- SCI 308 - Hands-On Science Teaching *Units: 1*

Students must take one (1) of the following courses for 3 units:

- ART 102 - 2D Processes *Units: 3 ; G.E./G.R. Area: C1*
- DANC 341 - Dance for Children *Units: 3 ; G.E./G.R. Area: C4*
- TED 420 - Art Skills for Teachers *Units: 3*

Students must take one (1) of the following courses for 3-4 units:

- ANTH 340 - Language and Culture *Units: 3 ; G.E./G.R. Area: D4*
- ENGL 351 - Modern English Grammar *Units: 4*
- HDEV 423 - Child Language Development *Units: 4*

Students must take one (1) of the following courses for 3 units:

- HSC 115 - Human Health and Wellness *Units: 3*
- HSC 270 - Investigating Disease Outbreaks and Epidemics *Units: 3 ; G.E./G.R. Area: C2; Social Justice*
- HSC 440 - Global Health and Disability *Units: 3 ; G.E./G.R. Area: D4; Social Justice*

Other Undergraduate Degree Requirements

In addition to major requirements, every student must also complete the University's baccalaureate requirements for graduation, which are described in the Requirements, Exams & Testing chapter of this catalog.

Department Courses Listed by Course Type

Liberal Studies Courses

Liberal Studies Program

Go to information for this department.

Courses

Liberal Studies

- • LBST 201 - Introduction to Liberal Studies *Units: 3*
- • LBST 499 - Liberal Studies Senior Seminar *Units: 3*

Certificate

Liberal Studies Teacher Preparation Multiple Subject CSET Waiver Certificate

Note: This program is not currently available to students.

See Errata for corrections to this content.

Liberal Studies Teacher Preparation MS CSET Waiver Certificate Program

This Certificate is for students who wish to seek a waiver of the CSET for the Multiple Subject Matter requirement. Students who plan to teach in a public school in California for K-6 and need a CSET Waiver program for the purpose of applying for the Multiple Subject Teaching Credential programs in California should major in Liberal Studies with the Teacher Preparation Concentration, plus this certificate. Completion of both programs will provide a waiver for the Multiple Subject CSET requirement, which is a prerequisite for the Multiple Subject Teaching Credential programs in California.

Certificate Requirements

This Certificate requires 20-27 units to complete.

Note: BPEP students completing this certificate are required to complete an additional course: TED 571 for one (1) unit.

Take all of the following 14 units:

- MATH 402 - Mathematics for K-8 Educators I Units: 4
- MATH 403 - Mathematics for K-8 Educators II Units: 4
- MUS 302 - What to Listen for in Music Units: 3 ; G.E./G.R. Area: C4
- STAT 100 - Elements of Statistics and Probability Units: 3 ; G.E./G.R. Area: B4

Complete two (2) of the following courses for 6 units that are not completed in the Teacher Preparation Concentration:

- CHEM 100 - Introduction to College Chemistry Units: 3 ; G.E./G.R. Area: B1, B3
- GEOL 100 - Earth Systems Science Units: 4 ; G.E./G.R. Area: B1, B3; Sustainability
- PHYS 115 - Elementary Physics Units: 3 ; G.E./G.R. Area: B1, B3

Students in BPEP must also take the following course for 1 unit:

- TED 571 - Multiple Subject Fieldwork Seminar II Units: 1

Prior K-6 Classroom Teaching Experience Requirements (0-6 units) Complete either A or B:

A: Prior experience certification form signed by a teacher or principal verifying experience in a K-6 classroom (minimum 45 hours, 15 hours of which must be in a public school)

B: Complete the following two (2) courses (6 units):

- TED 301 - Introduction to Education Units: 3
- TED 302 - Introduction to Teaching Units: 3

Department Courses Listed by Course Type

Liberal Studies Courses

Liberal Studies Program

Go to information for this department.

Courses

Liberal Studies

- • LBST 201 - Introduction to Liberal Studies *Units: 3*
- • LBST 499 - Liberal Studies Senior Seminar *Units: 3*

Marine Science Program

Cal State East Bay contact the Biological Sciences Office, located on the 4th Floor of the North Science building, Room 429.

Open 8:00 a.m. - 6:00 p.m., Monday - Friday.

Dept. Phone: (510) 885-3471

Faculty

Professors Emeriti

William Broenkow (Physical Oceanography)

Gregor M. Cailliet (Ichthyology)

Michael S. Foster (Phycology)

H. Gary Greene (Marine Geology)

Professors

Ivano W. Aiello (Geological Oceanography)

Kenneth H. Coale (Chemical Oceanography/Trace Metals)

Jon Geller (Invertebrate Zoology)

Michael H. Graham (Phycology)

Scott Hamilton (Ichthyology)

James T. Harvey (Interim Director, Vertebrate Ecology)

Erika McPhee-Shaw (Physical Oceanography)

Joan Parker (Research Librarian)

Diana Steller (Research Diving)

Nick Welschmeyer (Biological Oceanography)

Research Professors

Simona Bartl (Molecular Biology)

Laurence Breaker (Physical Oceanography)

David A. Ebert (Ecomorphology)

Stacy Kim (Benthic Ecology)

Valerie Loeb (Ichthyoplankton)

John Oliver (Benthic Ecology)

Jason Smith (Environmental Biotechnology Laboratory)

Richard M. Starr (C.A. Seagrant/Fisheries and Conservation Biology)

Program Statement

The California State University operates the Moss Landing Marine Laboratories (MLML) at Moss Landing on Monterey Bay, California. This facility functions as a seaside extension of the campuses of seven cooperating California State Universities (East Bay, Monterey Bay, San Jose, San Francisco, Sacramento, Stanislaus, and Fresno) and offers course work in marine biology, geology, oceanography, and other marine sciences.

Facilities

Since January 2000, the Laboratories have occupied new facilities in Moss Landing overlooking Monterey Bay, replacing the original laboratory demolished in the 1989 Loma Prieta earthquake. The stunning new building provides modern, up-to-date classrooms, laboratories, research facilities, library and conference room for faculty, staff and students of the consortium campuses.

MLML's Marine Operations Center, located also in Moss Landing, facilitates oceanographic and near-shore classes and research by providing shore support. The Center houses equipment used for in-port maintenance of scientific equipment, SCUBA air compressor, shore-based radio operations, and other support needs.

The MLML maintains a collection of nautical charts and topographical maps with an emphasis on the West Coast and there is a growing collection of reprints. It also subscribes to abstracting services such as "Oceanic Abstracts" and "Aquatic Sciences and Fisheries Abstracts." A terminal is available for computer literature searches. Close ties are maintained with libraries at Stanford's Hopkins Marine Station, U.C. Santa Cruz, Naval Postgraduate School, San Jose State University, and the Monterey Bay Aquarium Research Institute. Materials are borrowed from these agencies or further afield as the need arises. A special effort has been made to collect materials relating to Monterey Bay and Elkhorn Slough.

As a member of the Central California Oceanographic Cooperative (CENCAL), MLML operates the 135-foot Research Vessel Point Sur. The R/V Point Sur, built in 1981, is well-equipped for instructional use and research, with a trawl winch, two hydrographic winches and three laboratories, scientific equipment for sampling and oceanographic profiling, Smith-McIntyre grabs, rock dredges, and various types of coring devices. Also available is a variety of nets for bottom and midwater trawls.

The Laboratories also own and operate the 56-foot R/V John Martin and the 35-foot R/V Ed Ricketts. These boats are used for trawling, water sampling and other work near shore, and serve as diving platforms.

In addition, faculty and students at MLML utilize other University National Oceanographic Laboratory System (UNOLS) vessels when they have research requirements for larger vessels or for vessels in a different area of the world. MLML personnel have participated in cruises to Baja California, Hawaii, the Bahamas, Mexico, South America, the Arctic, and the Antarctic.

Graduate Program

A Master of Science in Marine Science degree program is offered at MLML for students from Cal State East Bay and the other consortium schools. Details of this program follow. In addition, graduate students from Cal State East Bay may take such courses at Moss Landing as are appropriate to their degree objectives, including that of an M.S. in Biological Science or an M.S. in Geology. (See the Department of Biological Sciences and Department of Earth and Environmental Sciences chapters in this catalog.) A major part of the work leading to the M.S. degree in Biological Science, particularly in the environmental biology option, or to the M.S. degree in Geology, may be completed at the Marine Laboratories. Normally, a minimum of one or two quarters enrollment for other necessary courses on the Hayward campus may also be required.

Courses Offered

Full-time coursework and research in marine sciences are offered the year around. Emphasis in instruction and research is at the upper-division undergraduate and graduate levels. The Laboratories operate on a semester system during the academic year.

A total of thirty to forty units is offered each term in marine biological and physical sciences. Contact the Cal State East Bay Department of Biological Sciences for a current list of courses for the term you wish to attend, or you can write to Moss Landing Marine Labs, 8272 Moss Landing Road, Moss Landing, CA 95039. Basic courses offered every term include marine ecology, marine science diving, graduate seminar, and selected topics in marine sciences. See the BIOL and ENSC course prefixes in the Course Descriptions chapter in this catalog.

Nature of Instructional Program

Classes usually are small, with major emphasis upon field and laboratory instruction, and with a strong independent study or directed research component. Coursework usually is organized into large blocks of time (all day on a given day). Since field and laboratory activities are more demanding of time and energy than is usual for on-campus courses, the staff recommends that the student limit his or her academic load to twelve units. While it is possible to commute to Moss Landing for part-time work, this is not recommended because of the time and energy drain. In addition to standard course offerings, independent study (undergraduate) and graduate research and thesis work may be undertaken under supervision of staff members currently in residence.

Research Areas and Emphases at Moss Landing

Stress is upon field-oriented studies of marine and estuarine ecosystems, with physical science research concerned particularly with geological, chemical, and physical limiting factors, and biological investigations dealing with relationships of organisms to these factors. Where possible, physical and biological studies are paired to provide reciprocal benefits from a team approach and from interdisciplinary faculty sponsorship. The near-shore shallow waters of Monterey Bay, Elkhorn Slough, and the deep waters of the Monterey Submarine Canyon provide a wide diversity of habitats.

Housing in Moss Landing Area

Commercial housing (apartments, small furnished houses, rooms with or without board, etc.) is available at communities near Moss Landing (Castroville, Salinas, Watsonville, Aptos, Monterey). Short-distance commuting from these areas is necessary; thus, availability of a car or participation in a car pool usually is required.

Registration Procedures

Since MLML courses are offered on the semester system (fall and spring semesters), there are special registration procedures.

Students must complete and submit a "Space Reservation" form to MLML (available through the Cal State East Bay Department of Biological Sciences and through MLML). Permission must be given by Cal State East Bay Biological Sciences for East Bay MLML students to register online. Students must also attend the first day of classes at MLML.

Fall and spring registration for MLML courses is at the same time as Cal State East Bay's regular fall and spring registration. Fall registration fees are paid at the same time as regular fall registration fees. Spring registration fees must be paid at the beginning of spring semester MLML classes (end of January).

Pre-Professional Programs (PHAP)

The Pre-Professional Health Academic Program (PHAP) Office is located on the 1st floor of the North Science Building, SC N113

Contact the office for office hours

Office Phone: (510) 885-4764

Faculty

Professor

Oscar Wambuguh, Ph.D. University of California, Berkeley

Program Statement

PHAP is operated by Continuing Education, in collaboration with the College of Science, and prepares undergraduate and post-baccalaureate students interested in biomedical careers (medicine, dentistry, pharmacy, optometry, veterinary science, graduate nursing, physician assistant, podiatry, physical therapy

and selected allied health programs) for application to these doctoral programs. Students are encouraged to review information on the PHAP website to learn more about differences between those categories.

A student interested in entering medicine, dentistry, optometry, pharmacy, physical therapy, veterinary science, or allied health sciences should contact the PHAP Office at the North Science Building, SC N113 (510-885-4764) for information and registration in the program. The office will direct the student to a preprofessional health advisor to discuss individual course needs and counseling about the requirements for admission to professional schools. Information about specific health and veterinary fields, schools, admission requirements, applications, etc., is available through numerous online documents listed under "Links" at the PHAP website. The national health professional associations (AAMC, ADEA, AACOM, ASCO, AAVMC, etc.) also have listings of schools which may be linked to from their sites.

The Director of PHAP is Dr. Oscar Wambuguh, also a pre-health advisor and professor in health sciences. There are three other pre-health faculty advisors in the program who can be reached for an appointment using the links at the College of Science highlighted below. Students should make an appointment to meet with the advisor as often as necessary. The pre-health advisor engages students in discussions concerning courses, course mix, course load, and volunteer, research, and community service opportunities required by many professional schools. Information about advising appointments can also be obtained by e-mailing phap@csueastbay.edu

About the Program

Use the PHAP website link to learn more about what the Pre-Professional Health Academic Program has to offer.

- About
- The Profession
- Outcomes
- Curriculum
- Faculty
- Admission
- Support
- And more . . .

Certificate

Pre-Professional Health Academic Program Certificate

Pre-Professional Health Academic Program

Program Description

The Pre-Professional Health Academic Program (PHAP) is designed to provide the competitive advantage needed to enter a health professional school and launch a rewarding career in medicine, optometry, dentistry, veterinary medicine, physical therapy, and other healthcare fields like public health, nursing and physician assistant.

Students accepted into the program need have completed a bachelor's degree in a science or non-science field with a minimum cumulative graduating GPA of 2.8. There are two academic tracks in the program depending on student's undergraduate degree.

Track I

For students with a non-science degree and have not taken any biomedical school prerequisite science courses, the program offers a two-and-a-half-year curriculum (Career Changer). Track I students will complete all foundation science courses plus selected upper division courses in genetics, anatomy and physiology, biomedical physiology, immunology, biochemistry I, biochemistry II, psychology, medical humanities, and two 2-unit post-baccalaureate seminar courses.

Track II

For students who have completed a bachelor's degree in a science field and taken most or all foundation science courses. Students will complete upper division courses in all major biomedical areas: genetics, molecular/cell biology, microbiology, physiology, neurosciences, immunology, endocrinology, biochemistry, mathematics, psychology, medical humanities, and two 2-unit post-baccalaureate seminar courses.

Program Learning Outcomes

At the completion of the certificate program PHAP students will have:

- Acquired the required baseline knowledge in entrance and advanced science courses to competitively apply to health professional schools.
- Gained necessary experience in various health settings.
- Prepared and taken national entrance exams such as the MCAT, DAT, GRE, PCAT, and OAT.
- Have had opportunities to engage in basic or clinical research and participate in community service.
- Received mentoring and tutoring to prepare for the health professional school application process.
- Developed personal characteristics and acquired skill-based professional training for career advancement.

Admission Requirements

To qualify for entry into the Pre-Professional Health Academic Program (PHAP) at Cal State East Bay, applicants must:

- Submit of a graduate application at www.calstate.edu/apply for either Track I (Career Changer) or Track II (Academic Enhancer).
- Submit a supplementary PHAP application.
- Provide a one page (single-spaced) personal statement detailing applicant's career objectives in biomedical sciences as part of the supplementary application.
- Hold a baccalaureate degree with a minimum cumulative GPA of 2.8 (the average accepted GPA is 3.0).
- Submit official transcripts of all courses taken at every college attended.
- Be prepared to participate in a pre-admission interview with the program admissions staff lasting about one hour.

Note: Students who have not taken Math 120 Precalculus or Math 125 Precalculus with Algebra prior to admission will be required to take one of those courses even though they are not offered in conjunction with the program.

Post-Baccalaureate Pre-Professional Health Sciences Certificate Program

TRACK I

Track I is for students with a non-science degree and have not taken any biomedical school prerequisite science courses, the program offers a two-and-a-half-year curriculum (Career Changer). Track I students will complete foundation science courses plus selected upper division courses in genetics, anatomy and physiology, biomedical physiology, immunology, biochemistry I, biochemistry II, psychology, medical humanities, and two 2-unit postbaccalaureate seminar courses.

Foundation course requirements will be determined by the advisor depending on the student's career goal. A minimum of 47 units will be required.

Foundation Science Coursework (47-59 units)

Biology

- BIOL 140A - Principles of Cell and Molecular Biology *Units: 5 ; G.E./G.R. Area: B2, B3*
- BIOL 140B - Principles of Organismal Biology *Units: 5*

Physics

- PHYS 125 - Principles of Physics I *Units: 4 ; G.E./G.R. Area: B1, B3*
- PHYS 126 - Principles of Physics II *Units: 4 ; G.E./G.R. Area: B1, B3*

Chemistry

- CHEM 111 - General Chemistry I *Units: 5 ; G.E./G.R. Area: B1, B3*
- CHEM 112 - General Chemistry II *Units: 5*
- CHEM 331 - Organic Chemistry I *Units: 5*
- CHEM 332 - Organic Chemistry II *Units: 5*

Mathematics

- MATH 130 - Calculus I *Units: 4 ; G.E./G.R. Area: B4*

Psychology

- PSYC 100 - General Psychology *Units: 3 ; G.E./G.R. Area: D1-3*
- PSYC 330 - Cognitive Psychology *Units: 4*

Statistics

- STAT 303A - Biostatistics for Health Science *Units: 3*

Health Science

- HSC 130 - Health Humanities *Units: 3 ; G.E./G.R. Area: C2*

Seminar Coursework

- BIOL 420 - Cell and Molecular Biology Undergraduate Seminar *Units: 2*
- BIOL 670 - Seminar in Physiology *Units: 2*

Elective Lower and Upper Division Coursework (minimum of 21 units)

Select from the following:

- BIOL 270 - Human Anatomy & Physiology I *Units: 4 ; G.E./G.R. Area: B2, B3*

- BIOL 271 - Human Anatomy & Physiology II *Units: 4*
- BIOL 310 - Genetic Analysis I *Units: 4*
- BIOL 330 - General Microbiology *Units: 5*
- BIOL 410 - Genetic Analysis II *Units: 3*
- BIOL 426 - Advanced Molecular and Cell Biology *Units: 3*
- BIOL 434 - Molecular Microbiology *Units: 3*
- BIOL 440 - Molecular Virology *Units: 3*
- BIOL 441 - Parasitology *Units: 3*
- BIOL 442 - Epidemiology *Units: 3*
- BIOL 444 - Medical Entomology *Units: 3*
- BIOL 445 - Immunology *Units: 3*
- BIOL 470 - Animal Senses *Units: 4*
- BIOL 471 - Neurobiology *Units: 3*
- BIOL 473 - Comparative Physiology *Units: 3*
- BIOL 474 - Biomedical Physiology *Units: 3*
- BIOL 476 - General Endocrinology *Units: 3*
- BIOL 488 - Environmental Physiology *Units: 3*
- CHEM 441 - Biochemistry I *Units: 4*
- CHEM 442 - Biochemistry II *Units: 4*
- CHEM 445 - Protein Structure *Units: 3*
- CHEM 446 - Nucleic Acid Chemistry *Units: 3*
- CHEM 447 - Major Organ Biochemistry *Units: 3*
- CHEM 490 - Independent Study *Units: 1-4*
- HSC 315 - Public Health *Units: 3*
- HSC 355 - Bioethics *Units: 3*
- MATH 131 - Calculus II *Units: 3*
- PHYS 125A - Principles of Physics I - Discussion *Units: 1*
- PHYS 126A - Principles of Physics II - Discussion *Units: 1*

TRACK II

Track II is for students who have completed a bachelor's degree in a science field and taken most or all foundation science courses. Students will complete upper division courses in all major biomedical areas: genetics, molecular/cell biology, microbiology, physiology, neurosciences, immunology, endocrinology, biochemistry, mathematics, psychology, medical humanities, and two 2-unit postbaccalaureate seminar courses.

Student will choose a program of at least 34 units with the advance approval of an advisor.

Elective Lower and Upper Division Coursework (minimum of 34 units)

Biology

- BIOL 270 - Human Anatomy & Physiology I *Units: 4 ; G.E./G.R. Area: B2, B3*
- BIOL 271 - Human Anatomy & Physiology II *Units: 4*
- BIOL 310 - Genetic Analysis I *Units: 4*
- BIOL 330 - General Microbiology *Units: 5*

- BIOL 410 - Genetic Analysis II *Units: 3*
- BIOL 424 - Bioinformatics *Units: 3*
- BIOL 426 - Advanced Molecular and Cell Biology *Units: 3*
- BIOL 430 - Microbial Physiology and Metabolism *Units: 3*
- BIOL 432 - Microbe-Host Interactions *Units: 3*
- BIOL 434 - Molecular Microbiology *Units: 3*
- BIOL 440 - Molecular Virology *Units: 3*
- BIOL 441 - Parasitology *Units: 3*
- BIOL 442 - Epidemiology *Units: 3*
- BIOL 444 - Medical Entomology *Units: 3*
- BIOL 445 - Immunology *Units: 3*
- BIOL 470 - Animal Senses *Units: 4*
- BIOL 471 - Neurobiology *Units: 3*
- BIOL 473 - Comparative Physiology *Units: 3*
- BIOL 474 - Biomedical Physiology *Units: 3*
- BIOL 476 - General Endocrinology *Units: 3*
- BIOL 488 - Environmental Physiology *Units: 3*

Chemistry

- CHEM 111 - General Chemistry I *Units: 5 ; G.E./G.R. Area: B1, B3*
- CHEM 112 - General Chemistry II *Units: 5*
- CHEM 331 - Organic Chemistry I *Units: 5*
- CHEM 332 - Organic Chemistry II *Units: 5*
- CHEM 441 - Biochemistry I *Units: 4*
- CHEM 442 - Biochemistry II *Units: 4*
- CHEM 445 - Protein Structure *Units: 3*
- CHEM 446 - Nucleic Acid Chemistry *Units: 3*
- CHEM 447 - Major Organ Biochemistry *Units: 3*

Physics

- PHYS 125 - Principles of Physics I *Units: 4 ; G.E./G.R. Area: B1, B3*
- PHYS 126 - Principles of Physics II *Units: 4 ; G.E./G.R. Area: B1, B3*
- PHYS 303 - Biophysics *Units: 3 ; G.E./G.R. Area: B6*

English

- ENGL 100 - College Writing: Stretch I *Units: 3*
- ENGL 101 - College Writing: Stretch II *Units: 3 ; G.E./G.R. Area: A2*
- ENGL 200 - College Writing II *Units: 3 ; G.E./G.R. Area: Writing II*

Health Science

- HSC 130 - Health Humanities *Units: 3 ; G.E./G.R. Area: C2*
- HSC 315 - Public Health *Units: 3*
- HSC 355 - Bioethics *Units: 3*
- HSC 405 - Toxicology *Units: 3*

Mathematics

- MATH 130 - Calculus I *Units: 4 ; G.E./G.R. Area: B4*
- MATH 131 - Calculus II *Units: 3*

Psychology

- PSYC 100 - General Psychology *Units: 3 ; G.E./G.R. Area: D1-3*
- PSYC 330 - Cognitive Psychology *Units: 4*
- PSYC 360 - Social Psychology *Units: 4*
- PSYC 381 - Psychopathology *Units: 4*
- PSYC 421 - Cognitive Neuroscience *Units: 4*

Statistics

- STAT 303A - Biostatistics for Health Science *Units: 3*

Seminars

- BIOL 420 - Cell and Molecular Biology Undergraduate Seminar *Units: 2*
- BIOL 670 - Seminar in Physiology *Units: 2*

Independent Study

- CHEM 490 - Independent Study *Units: 1-4*
- PHYS 125A - Principles of Physics I - Discussion *Units: 1*
- PHYS 126A - Principles of Physics II - Discussion *Units: 1*

Department Courses Listed by Course Type

Biological Sciences Courses

Department of Biological Sciences

Go to information for this department.

Courses

Biological Science

- • BIOL 100 - Biology in the Real World *Units: 4 ; G.E./G.R. Area: B2, B3*
- • BIOL 101 - Introduction to Biology *Units: 3 ; G.E./G.R. Area: B2*
- • BIOL 102 - Introduction to Biology Lab *Units: 1 ; G.E./G.R. Area: B3*
- • BIOL 140A - Principles of Cell and Molecular Biology *Units: 5 ; G.E./G.R. Area: B2, B3*
- • BIOL 140B - Principles of Organismal Biology *Units: 5*
- • BIOL 230 - Introduction to Clinical Microbiology *Units: 4 ; G.E./G.R. Area: B2, B3*
- • BIOL 270 - Human Anatomy & Physiology I *Units: 4 ; G.E./G.R. Area: B2, B3*
- • BIOL 271 - Human Anatomy & Physiology II *Units: 4*
- • BIOL 301 - Biology Connections *Units: 3*
- • BIOL 302 - Biology Connections Laboratory *Units: 1*

- • BIOL 310 - Genetic Analysis I *Units: 4*
- • BIOL 315 - Marine Biology *Units: 4*
- • BIOL 320 - Evolutionary Biology *Units: 3*
- • BIOL 330 - General Microbiology *Units: 5*
- • BIOL 333 - Humans and Sex *Units: 3 ; G.E./G.R. Area: B6; Diversity*
- • BIOL 334 - Humans and the Living Planet *Units: 3 ; G.E./G.R. Area: B6; Sustainability*
- • BIOL 335 - Humans: Health and Disease *Units: 3 ; G.E./G.R. Area: B6; Social Justice*
- • BIOL 350 - Ecology *Units: 4*
- • BIOL 352 - Biogeography *Units: 4*
- • BIOL 356 - Freshwater Environments *Units: 4*
- • BIOL 368 - Fungi of California *Units: 3*
- • BIOL 370 - Animal Physiology *Units: 4*
- • BIOL 372 - Microscopic Methods: Quantitative Analysis of Structure & Function *Units: 3*
- • BIOL 398 - Internship *Units: 1-4*
- • BIOL 410 - Genetic Analysis II *Units: 3*
- • BIOL 415 - PCR, Sequencing and Fragment Analysis *Units: 3*
- • BIOL 420 - Cell and Molecular Biology Undergraduate Seminar *Units: 2*
- • BIOL 424 - Bioinformatics *Units: 3*
- • BIOL 425 - Techniques in Mammalian Cell Culture *Units: 3*
- • BIOL 426 - Advanced Molecular and Cell Biology *Units: 3*
- • BIOL 427 - Molecular and Cell Biology Lab *Units: 3*
- • BIOL 428 - Genomics *Units: 3*
- • BIOL 430 - Microbial Physiology and Metabolism *Units: 3*
- • BIOL 431 - Medical Microbiology *Units: 5*
- • BIOL 432 - Microbe-Host Interactions *Units: 3*
- • BIOL 433 - Microbial Ecology *Units: 3*
- • BIOL 434 - Molecular Microbiology *Units: 3*
- • BIOL 440 - Molecular Virology *Units: 3*
- • BIOL 441 - Parasitology *Units: 3*
- • BIOL 442 - Epidemiology *Units: 3*
- • BIOL 443 - Hematology *Units: 4*
- • BIOL 444 - Medical Entomology *Units: 3*
- • BIOL 445 - Immunology *Units: 3*
- • BIOL 454 - Biology of Fungi *Units: 4*
- • BIOL 455 - Vertebrate Biology *Units: 4*
- • BIOL 458 - Animal Behavior *Units: 4*
- • BIOL 460 - Ecology and Evolutionary Biology Undergraduate Seminar *Units: 2*
- • BIOL 466 - Population Biology *Units: 4*
- • BIOL 468 - Molecular Ecology *Units: 4*
- • BIOL 469 - Conservation Biology *Units: 4*
- • BIOL 470 - Animal Senses *Units: 4*
- • BIOL 471 - Neurobiology *Units: 3*
- • BIOL 472 - Neurobiology Laboratory *Units: 4*
- • BIOL 473 - Comparative Physiology *Units: 3*
- • BIOL 474 - Biomedical Physiology *Units: 3*
- • BIOL 475 - Global Change Biology *Units: 4*
- • BIOL 476 - General Endocrinology *Units: 3*
- • BIOL 488 - Environmental Physiology *Units: 3*

- • BIOL 490 - Independent Study *Units: 1-4*
- • BIOL 497 - Issues in Biological Science *Units: 1-3*

Biological Science: Graduate

- • BIOL 601A - Foundations of Scientific Research *Units: 1*
- • BIOL 601B - Foundations of Scientific Communication *Units: 1*
- • BIOL 602 - Preparation for Undergraduate Instruction in Biology *Units: 3*
- • BIOL 610 - Seminar in Cell & Molecular Biology *Units: 2*
- • BIOL 616 - Cell and Molecular Biology I *Units: 3*
- • BIOL 618 - Cell and Molecular Biology II *Units: 3*
- • BIOL 620 - Functional Genomics *Units: 3*
- • BIOL 622 - Advanced Molecular Techniques *Units: 3*
- • BIOL 630 - Seminar in Microbiology *Units: 2*
- • BIOL 631 - Microbial Physiology and Biochemistry *Units: 3*
- • BIOL 650 - Seminar in Ecology and Evolution *Units: 2*
- • BIOL 652 - Advances in Ecology and Evolution *Units: 3*
- • BIOL 653 - Community and Ecosystem Biology *Units: 4*
- • BIOL 655 - Phylogenetic Methods *Units: 3*
- • BIOL 657 - Environmental Experimental Analysis *Units: 4*
- • BIOL 670 - Seminar in Physiology *Units: 2*
- • BIOL 671 - Advanced Topics in Physiology *Units: 3*
- • BIOL 672 - Microscopic Methods: Quantitative Analysis of Structure & Function *Units: 3*
- • BIOL 690 - Independent Study *Units: 1-4*
- • BIOL 691 - University Thesis *Units: 1-5*
- • BIOL 698 - Internship *Units: 1-4*

Marine Science

- • MSC 403 - Marine Ecology *Units: 4*
- • MSC 405 - Marine Science Diving *Units: 3*
- • MSC 412 - Marine Birds and Mammals *Units: 4*
- • MSC 413 - Marine Ichthyology *Units: 4*
- • MSC 424 - Marine Invertebrate Zoology I *Units: 4*
- • MSC 425 - Marine Invertebrate Zoology II *Units: 3*
- • MSC 431 - Marine Botany *Units: 4*
- • MSC 435 - Physiology of Marine Algae *Units: 4*
- • MSC 441 - Geological Oceanography *Units: 4*
- • MSC 442 - Physical Oceanography *Units: 4*
- • MSC 443 - Chemical Oceanography *Units: 4*
- • MSC 444 - Biological Oceanography *Units: 4*
- • MSC 490 - Independent Study *Units: 1-4*
- • MSC 497 - Topics in Marine Sciences *Units: 1*

Marine Science: Graduate

- • MSC 601 - Library Research Methods in Marine Science *Units: 1*
- • MSC 602 - Oceanographic Instrumentation *Units: 4*
- • MSC 604 - Sampling and Experimental Design *Units: 4*
- • MSC 606 - Molecular Biological Techniques *Units: 4*
- • MSC 608 - Scientific Methods *Units: 4*
- • MSC 611 - Ecology of Marine Turtles, Birds and Mammals *Units: 4*

- • MSC 612 - Advanced Topics in Marine Vertebrates *Units: 4*
- • MSC 621 - Advanced Topics in Marine Invertebrates *Units: 4*
- • MSC 631 - Biology of Seaweeds *Units: 4*
- • MSC 633 - Advanced Topics in Marine Ecology *Units: 4*
- • MSC 634 - Advanced Biological Oceanography *Units: 4*
- • MSC 642 - Plate Tectonics *Units: 3*
- • MSC 646 - Geology of the Monterey Bay Region *Units: 4*
- • MSC 648 - Marine Benthic Habitat Mapping Techniques *Units: 4*
- • MSC 651 - Marine Geochemistry *Units: 4*
- • MSC 661 - Mixing, Estuarine and Sediment Transport *Units: 4*
- • MSC 663 - Data Analysis Techniques in Marine Science *Units: 4*
- • MSC 671 - Population Biology *Units: 3*
- • MSC 672 - Subtidal Ecology *Units: 4*
- • MSC 674 - Advanced Topics in Oceanography *Units: 4*
- • MSC 680 - Scientific Writing *Units: 3*
- • MSC 681 - Coastal Dynamics *Units: 4*
- • MSC 689 - Research in Marine Science *Units: 2*
- • MSC 690 - Independent Study *Units: 1-4*
- • MSC 691 - University Thesis *Units: 4*
- • MSC 697 - Graduate Seminar in Marine Science *Units: 2*

Department Courses Listed by Course Type

Chemistry and Biochemistry Courses

Department of Chemistry and Biochemistry

Go to information for this department.

Courses

Chemistry

- • CHEM 100 - Introduction to College Chemistry *Units: 3 ; G.E./G.R. Area: B1, B3*
- • CHEM 110 - General Chemistry for Engineering *Units: 3 ; G.E./G.R. Area: B1, B3*
- • CHEM 111 - General Chemistry I *Units: 5 ; G.E./G.R. Area: B1, B3*
- • CHEM 112 - General Chemistry II *Units: 5*
- • CHEM 161 - Basic Chemistry for the Health Sciences *Units: 4 ; G.E./G.R. Area: B1, B3*
- • CHEM 162 - Basic Biochemistry for the Health Sciences *Units: 3*
- • CHEM 165 - Basic Chemistry for Healthier Living *Units: 4 ; G.E./G.R. Area: B1, B3*
- • CHEM 220 - Quantitative Analysis *Units: 4*
- • CHEM 230 - Survey of Organic Chemistry *Units: 5*
- • CHEM 233 - Fundamentals of Organic Chemistry *Units: 3*
- • CHEM 301 - Chemistry Connections *Units: 3 ; G.E./G.R. Area: B6*
- • CHEM 302 - Chemistry Connections Laboratory *Units: 1*
- • CHEM 320 - Bioanalytical and Forensic Instrumentation *Units: 3*

- • CHEM 331 - Organic Chemistry I *Units: 5*
- • CHEM 332 - Organic Chemistry II *Units: 5*
- • CHEM 340 - Survey of Biochemistry *Units: 3*
- • CHEM 350 - Biophysical Chemistry *Units: 3*
- • CHEM 351 - Physical Chemistry I *Units: 3*
- • CHEM 352 - Physical Chemistry II *Units: 3*
- • CHEM 355 - Physical Chemistry Laboratory *Units: 2*
- • CHEM 410 - Advanced Inorganic Chemistry *Units: 4*
- • CHEM 415 - Inorganic Chemistry Laboratory *Units: 2*
- • CHEM 420 - Instrumental Analysis *Units: 3*
- • CHEM 425 - Environmental Chemistry *Units: 4*
- • CHEM 430 - Advanced Organic Chemistry *Units: 3*
- • CHEM 441 - Biochemistry I *Units: 4*
- • CHEM 442 - Biochemistry II *Units: 4*
- • CHEM 443 - Biochemistry Laboratory I *Units: 3*
- • CHEM 444 - Biochemistry Laboratory II *Units: 3*
- • CHEM 445 - Protein Structure *Units: 3*
- • CHEM 446 - Nucleic Acid Chemistry *Units: 3*
- • CHEM 447 - Major Organ Biochemistry *Units: 3*
- • CHEM 450 - Classical and Statistical Thermodynamics *Units: 3*
- • CHEM 470 - Chemical Literature *Units: 1*
- • CHEM 480 - Undergraduate Research *Units: 1-2*
- • CHEM 481 - Senior Thesis *Units: 1-2*
- • CHEM 490 - Independent Study *Units: 1-4*

Chemistry: Courses for Non-Science Majors

- • CHEM 106 - Chemistry and Society *Units: 3 ; G.E./G.R. Area: B1; Sustainability*
- • CHEM 304 - Chemistry of Wine Making *Units: 3 ; G.E./G.R. Area: B6*
- • CHEM 306 - Green Chemistry and Sustainability *Units: 3 ; G.E./G.R. Area: B6*

Chemistry: Graduate

- • CHEM 621 - Molecular Spectroscopy *Units: 3*
- • CHEM 631 - Graduate Organic Chemistry *Units: 3*
- • CHEM 641 - Graduate Biochemistry *Units: 3*
- • CHEM 642 - Protein Chemistry Techniques *Units: 3*
- • CHEM 651 - Graduate Physical Chemistry *Units: 3*
- • CHEM 652 - Computational Chemistry *Units: 3*
- • CHEM 680 - Seminar *Units: 1*
- • CHEM 681 - Research *Units: 1-2*
- • CHEM 690 - Independent Study *Units: 1-3*
- • CHEM 691 - University Thesis *Units: 2*
- • CHEM 692 - Comprehensive Exam *Units: 2*
- • CHEM 693 - Review Paper *Units: 2*
- • CHEM 697 - Issues in Chemistry *Units: 3*

School of Arts and Media

Participating Departments
Art, Communication, Music, Theatre & Dance

School Mission

The field of video production, for television as well as for corporate, educational, and Web uses, is expanding rapidly and there is much demand by employers for people with these skills. Other programs and courses at Cal State East Bay feature documentary and news production (COMM); stage acting (THEA); fiction writing for the printed page and the Internet (ENGL). This program introduces a new dimension to each of these areas: narrative or creative video. The new minor enables these departments to collaborate and actually create several videos of broadcast quality each year, giving students the opportunity to learn skills by practicing them.

About the School

Use our university website link to learn more about what the School of Arts and Media has to offer.

- Events
- Faculty, Student & Alumni News
- Graduate Study
- The Pioneer
- University Art Gallery
- Honors & Awards
- And more...

Master

Multimedia, M.A.: Interaction Design Concentration

Multimedia, M.A. Program

Program Description

The master's degree in Multimedia is a unique interdisciplinary program at the intersection of interactive content development and interaction design. The program emphasizes the creative and technical aspects of current and emerging technology and its use in creating, controlling, delivering, and presenting compelling content in an interactive form. This degree draws upon elements from a number of fields including art, journalism, computer science, psychology, and telecommunications.

The master's degree in Multimedia focuses on Interaction Design, the creation of interactive applications and objects as part of designed user experience.

The Multimedia graduate program embraces industry skills and practices by emphasizing teamwork and project-oriented goals. Students learn the skills needed to adapt quickly to new environments - a valuable asset for any profession. Because multimedia is a rapidly developing and rapidly changing field, the program focuses as much on the enduring creative process as on the transient technology.

The Multimedia master's is a two-year degree program. Most coursework is offered in the evening. During the first year, students develop a theoretical foundation in multimedia technology, enhance their creative skills and learn to work effectively in teams. During the second year, small teams of students with various backgrounds and talents create innovative, professional-quality interactive multimedia

projects. Ideas for group projects can originate from students, faculty or external sources. Many of the program's student projects have won national and international awards.

Students in the Multimedia graduate program enjoy a number of benefits including small student-teacher ratios and a dedicated interdisciplinary faculty. Thesis project students have 24-hour access to their own professional-quality multimedia production studio. These facilities are well equipped and maintained with the latest technology.

Career Opportunities

Located in the San Francisco Bay Area, the epicenter of the interactive digital media industry and technological innovation, the Multimedia graduate program prepares students for successful careers across multiple growing industries.

Interaction Designers create meaningful relationships between people and their interactive digital products, environments, systems, or services.

Creative Technologists are both strategists and innovators - technology-focused individuals integrated into a creative team. They are integrators who blur the lines between technology and creativity and create new ways of telling stories using technology.

Multimedia M.A. graduates are skilled team members - innovators with a high degree of expertise in interactive content development. They are at home in film and video studios, graphic and exhibition design studios, production and post-production houses, publishers, training and communication groups, scientific visualization teams, support teams for educational institutions and business presentations, and advertising agencies and news outlets.

Admission

Applicants are individually evaluated for admission to the Multimedia graduate program using the following criteria:

- A minimum GPA of 3.0 in the last 60 semester units of undergraduate work,
- A portfolio of work reflecting the applicant's talents and abilities in digital and interactive media,
- Evidence of professional experience in relevant fields.

To apply for admission to the Multimedia graduate program, students must complete the online university application at CALSTATE Apply. In addition, applicants must complete a departmental application and submit it along with a statement of purpose, resume, work sample, two reference letters and copies of academic transcripts. Applicants are selected by an admissions panel of the Multimedia Program Committee.

Students are admitted for the fall semester only. See the Multimedia Graduate Program website at <http://multimedia.csueastbay.edu> for the application deadline. No entrance exam is required for admission, however international students must take the TOEFL exam and achieve a score of 213.

Applicants who have not completed all prerequisite requirements may be placed in "Conditionally Classified Graduate" status if they can demonstrate the ability to complete these requirements.

Requirements for Continuation

Once admitted to the program, students must satisfy the University Writing Skills Requirement. Students who have completed all the prerequisite requirements and the University Writing Skills Requirement are

given "Classified Graduate" status. For information on meeting the University Writing Skills Requirement, see the Testing Office website at www.csueastbay.edu/testing or call (510) 885-3661.

Advancement to Candidacy is a University requirement for graduation. A student with "Classified Graduate" status may apply for Advancement to Candidacy after completing at least 20 semester units towards the master's degree with a minimum GPA of 3.0 (a grade of "B" or higher). Before being Advanced to Candidacy, a student's complete course of study and progress must be approved by the Multimedia Program Committee.

Program Learning Outcomes

Students graduating with an M.A. in Multimedia from Cal State East Bay will possess the following skills:

- **Critical Thinking and Reasoning:** Graduates will research, assess, and ethically use information in the field of multimedia design and journalism.
- **Creativity and Innovation:** Graduates will produce high-level work that demonstrates innovative and creative use of interactive technologies.
- **Information Literacy:** Graduates will analyze, interpret, evaluate, and reflect upon the effects of media and the historical evolution of information technologies.
- **Craft:** Graduates will demonstrate, through practical projects and written documentation, comprehensive knowledge of digital imaging, interactivity, and web, video and audio production.
- **Collaboration and Responsibility:** Graduates will work in collaborative teams to analyze and present solutions to local, regional, national, and global problems.

Multimedia Degree Requirements (34 units)

Required Core Courses

The following 17 units of core coursework is required:

- MM 601 - Seminar in Interactive Art & Design *Units: 3*
- MM 602 - Project and Story Development *Units: 3*
- MM 640 - Forum *Units: 1* (must be taken four times, once each semester for a total of 4 units)
- MM 680 - Interactive Content Development *Units: 3*
- MM 682 - Individual Multimedia Research and Practice *Units: 3*
- MM 694 - Project Documentation *Units: 1* (this course will be taken twice; once in the first semester of the second year and again as part of the capstone experience.)

Interaction Design Concentration

Interaction Design, for 17 units, focuses on the creation of meaningful experiences expressed as interactive applications and objects. Students analyze interactivity in art, design, and everyday life; acquire skills and develop prototypes; and work in collaborative teams to creatively solve real world problems.

Interaction Design Core

Two (2) courses for 6 units are required:

- MM 621 - Screen Based Interaction *Units: 3*
- MM 622 - Physical Prototyping *Units: 3*

Interaction Design Electives

Choose two (2) electives for 6 units:

- MM 665 - Experiments in Interactivity *Units: 3*
- MM 666 - Experiments in Art and Technology *Units: 3*
- MM 667 - Experiments in Storytelling *Units: 3*

Interaction Design Capstone

The following 5 units are required to complete the program capstone:

- MM 693 - Interaction Design Capstone Project *Units: 4*
- MM 694 - Project Documentation *Units: 1*

Other Graduate & Post-Baccalaureate Degree Requirements

In addition to departmental requirements, every student must also satisfy the University requirements for graduation as described throughout this catalog. These include the 70% unit residence requirement; the five-year rule on currency of subject matter; the minimum number of units in 600-level courses; the "C" minimum grade for each graduate course; the 3.00 cumulative grade point average; and the University Writing Skills Requirement.

Note: For information on meeting the University Writing Skills Requirement, see the Testing Office website at www.csueastbay.edu/testing or call (510) 885-3661.

Department Courses Listed by Course Type

Arts and Media Courses

School of Arts and Media

Go to information for this department.

Courses

Multimedia: Graduate

- • MM 601 - Seminar in Interactive Art & Design *Units: 3*
- • MM 602 - Project and Story Development *Units: 3*
- • MM 621 - Screen Based Interaction *Units: 3*
- • MM 622 - Physical Prototyping *Units: 3*
- • MM 630 - Coding for Multimedia *Units: 3*

- • MM 632 - Interaction Design *Units: 3*
- • MM 640 - Forum *Units: 1*
- • MM 665 - Experiments in Interactivity *Units: 3*
- • MM 666 - Experiments in Art and Technology *Units: 3*
- • MM 667 - Experiments in Storytelling *Units: 3*
- • MM 680 - Interactive Content Development *Units: 3*
- • MM 682 - Individual Multimedia Research and Practice *Units: 3*
- • MM 690 - Independent Study *Units: 1-3*
- • MM 693 - Interaction Design Capstone Project *Units: 4*
- • MM 694 - Project Documentation *Units: 1*
- • MM 698 - Internship *Units: 1-6*

School of Engineering

Computer Engineering, Industrial Engineering, Engineering Management, and Construction Management

The Department Office is located on the 5th Floor of the Student Faculty Building (SF), Room 524.

Hours Open: 9:00 a.m. to 6:00 p.m., Monday through Friday.

Dept. Phone: (510) 885-2654

Faculty

Professors

David Bowen, Ph.D. University of California, Berkeley

Farnaz Ganjeizadeh, Ph.D. University of Alabama at Huntsville

Saeid Motavalli (Chair), Ph.D. University of Pittsburgh

Zinovy Radovilsky (joint appointment in Engineering and Management), Ph.D. Scientific Research Institute of Labor, Moscow

Farzad Shahbodaghlu, Ph.D. Purdue University

Eric A. Suess (joint appointment in Engineering and Statistics), Ph.D. University of California, Davis

Helen Zong, Ph.D. University of Houston

Associate Professor

Cristián Gaedicke, Ph.D. University of Illinois, Urbana-Champaign

Assistant Professors

Reza Akhavian, Ph.D. University of Central Florida

Fadi Castronovo, Ph.D. Pennsylvania State University

Roger Doering, Ph.D. University of California, Berkeley

James Tandon, Ph.D. University of California, Santa Barbara

Department Statement

The School of Engineering offers undergraduate degrees in Industrial Engineering, Computer Engineering and Construction Management, and graduate degrees in Engineering Management and Construction Management. Certificates in Quality, Project Management, Construction Planning and Control and Construction Administration are also offered. The School serves a diverse regional and international student population, and utilizes modern tools and laboratories for active learning and student engagement while emphasizing collaborative learning.

Computer Engineers are involved in all aspects of computing, from the design of individual microprocessors, personal computers, and supercomputers, to circuit design, as well as the integration of computer systems into other kinds of systems (a motor vehicle, for example, has a number of subsystems that are computer oriented). Common computer engineering tasks include writing embedded software for real-time microcontrollers, working with sensors, designing mixed signal circuit boards, and designing operating systems. The Computer Engineering Program is accredited by the Engineering Accreditation Commission of ABET, 111 Market Place, Suite 1050, Baltimore, MD 21202-4012, Telephone: (410) 347-7700.

Industrial Engineers serve an essential need in today's technical society. As the interface between humans and technology, industrial engineers work to improve the quality and efficiency of the production of goods and services. The depth and caliber of academic preparation required to excel in this field is embodied in CSUEB's Industrial Engineering curriculum. The Industrial Engineering Program is accredited by the Engineering Accreditation Commission of ABET, 111 Market Place, Suite 1050, Baltimore, MD 21202-4012, Telephone: (410) 347-7700.

Engineering Management curriculum is distinctive in that it provides a blend of qualitative management and quantitative industrial engineering skills. Courses are offered in engineering, business, computer science and statistics. Students gain theoretical and practical training in how to plan, organize, allocate resources, and direct and control activities that have technological components.

Construction Management goals are to prepare effective managers for public and private construction projects, to prepare the workforce required for the expected increase in the State's transportation infrastructure improvements, and to enable high school graduates, transfer students and working professionals to assume leadership roles in the construction industry. Special attention is given to working students with classes offered mainly at times convenient to students.

About the School

Use our university website link to learn more about what the School of Engineering has to offer.

- About Accreditation
- Advising
- MESA

- Engineering Pathways
- And more...

Bachelor

Computer Engineering, B.S.

Computer Engineering, B.S. Program (127 units)

Program Description

Reach your full potential in the field of engineering and realize the future you envision with an undergraduate degree in Computer Engineering from California State University, East Bay. As a graduate of the Bay Area's latest engineering degree program, you'll qualify yourself for a high potential career in designing and building semiconductor hardware and software systems. Computer engineers are involved in all aspects of computing, from the design of individual microprocessors, personal computers, and supercomputers, to circuit design, as well as the integration of computer systems into other kinds of systems (a motor vehicle, for example, has a number of subsystems that are computer oriented). Common computer engineering tasks include writing embedded software for real-time microcontrollers, working with sensors, designing mixed signal circuit boards, and designing operating systems.

Career Opportunities

Exciting careers in designing and building semiconductor hardware and software systems, including individual microprocessors, personal computers, supercomputers, circuit design, integration of computer systems, writing embedded software for real-time microcontrollers, working with sensors, designing mixed-signal circuit boards, and designing operating systems.

Features

Relatively small class sizes, many hands-on lab and project experiences, easy access to faculty for advice and academic help, proximity to industry in the Silicon Valley area, and good opportunities for internships.

Program Learning Outcomes

Students who graduate with a B.S. in Computer Engineering will be able to:

- An ability to identify, formulate, and solve complex engineering problems by applying principles of engineering, science, and mathematics.
- An ability to apply engineering design to produce solutions that meet specified needs with consideration of public health, safety, and welfare, as well as global, cultural, social, environmental, and economic factors.
- An ability to communicate effectively with a range of audiences.
- An ability to recognize ethical and professional responsibilities in engineering situations and make informed judgments, which must consider the impact of engineering solutions in global, economic, environmental, and societal contexts.

- An ability to function effectively on a team whose members together provide leadership, create a collaborative and inclusive environment, establish goals, plan tasks, and meet objectives.
- An ability to develop and conduct appropriate experimentation, analyze and interpret data, and use engineering judgment to draw conclusions.
- An ability to acquire and apply new knowledge as needed, using appropriate learning strategies.

Degree Requirements Unit-Outline

- A baccalaureate of science degree requires a total of 127 units;
 - The major requirements consists of 89 units;
 - General Education (GE) & Graduation Requirements (GR) consists of 57 units;
 - Free Electives may consist of 0 units (*actual number of free elective units may depend on GE/GR units*).
- Note: It may be possible to double-count units within the graduation requirements or that a course may satisfy both a graduation requirement and a major requirement. Students should contact their program and AACE advisors for information.*

Computer Engineering Major Requirements (88 units)

Lower Division Core

The following 47 units of lower-division interdisciplinary coursework is required:

- CHEM 110 - General Chemistry for Engineering Units: 3 ; G.E./G.R. Area: B1, B3
- CS 101 - Computer Science I Units: 4
- CS 201 - Computer Science II Units: 4
- CS 211 - Discrete Structures Units: 3
- CS 221 - Computer Organization and Assembly Language Units: 3
- ENGR 200 - Introduction to Engineering and Design Units: 3 ; GE/GR Area: Writing II
- ENGR 220 - Statics Units: 3
- ENGR 230 - Electric Circuits I Units: 3
- MATH 130 - Calculus I Units: 4 ; G.E./G.R. Area: B4
- MATH 131 - Calculus II Units: 3
- MATH 210 - Linear Algebra with Differential Equations Units: 3
- MATH 230 - Calculus III Units: 3
- PHYS 135 - Physics for Scientists and Engineers I Units: 4 ; G.E./G.R. Area: B1, B3
- PHYS 136 - Physics for Scientists and Engineers II Units: 4

Upper Division Core

The following 35 units of upper-division coursework is required:

- CMPE 322 - Digital Design Laboratory Units: 1
- CMPE 330 - Electric Circuits II Units: 3
- CMPE 344 - Microprocessor Laboratory Units: 3
- CMPE 370 - Digital Signal Processing I Units: 3
- CMPE 421 - Computer Architecture II Units: 3

- CMPE 480 - VLSI Circuit Design/Layout *Units: 3*
- CMPE 492 - Senior Design I *Units: 3*
- CMPE 493 - Senior Capstone: Senior Design II *Units: 3*
- CS 301 - Data Structures and Algorithms *Units: 4*
- CS 321 - Computer Architecture *Units: 3*
- INDE 330 - Engineering Statistics and Probability *Units: 3*
- MATH 375 - Differential Equations I *Units: 3*

Elective Courses

Students shall select a minimum of 6 units of Engineering elective courses:

- CMPE 430 - Analog Design *Units: 3*
- CMPE 470 - Digital Signal Processing II *Units: 4*
- CS 401 - Software Engineering *Units: 4*
- CS 421 - Operating Systems *Units: 3*
- CS 441 - Computer Networks *Units: 3*
- CS 455 - Computer Graphics *Units: 3*
- ENGR 310 - CAD/CAM Graphics *Units: 3*

Other Undergraduate Degree Requirements

In addition to major requirements, every student must also complete the University's baccalaureate requirements for graduation, which are described in the Requirements, Exams & Testing chapter of this catalog.

Department Courses Listed by Course Type

Engineering Courses

School of Engineering

Go to information for this department.

Courses

Computer Engineering

- • CMPE 330 - Electric Circuits II *Units: 3*
- • CMPE 344 - Microprocessor Laboratory *Units: 3*
- • CMPE 370 - Digital Signal Processing I *Units: 3*
- • CMPE 398 - Internship *Units: 1-3*
- • CMPE 421 - Computer Architecture II *Units: 3*
- • CMPE 430 - Analog Design *Units: 3*
- • CMPE 470 - Digital Signal Processing II *Units: 4*
- • CMPE 480 - VLSI Circuit Design/Layout *Units: 3*

- • CMPE 490 - Independent Study *Units: 1-4*
- • CMPE 492 - Senior Design I *Units: 3*
- • CMPE 493 - Senior Capstone: Senior Design II *Units: 3*
- • CMPE 497 - Issues in Computer Engineering *Units: 3*

Construction Management

- • CMGT 101 - Introduction to Construction Management *Units: 3*
- • CMGT 142 - Construction Graphics and Plans Reading *Units: 2*
- • CMGT 201 - Surveying *Units: 2*
- • CMGT 206 - Construction Materials *Units: 3*
- • CMGT 207 - Construction Methods *Units: 3*
- • CMGT 310 - Statics and Strength of Materials *Units: 3*
- • CMGT 320 - Construction Law *Units: 3*
- • CMGT 325 - Electrical and Mechanical Systems in Construction *Units: 3*
- • CMGT 340 - Construction Cost Estimating *Units: 3*
- • CMGT 345 - Building Codes and Commissioning *Units: 3*
- • CMGT 350 - Construction Project Planning, Scheduling and Control *Units: 4*
- • CMGT 360 - Soil Mechanics and Building Foundations *Units: 3*
- • CMGT 410 - Building Information Modeling *Units: 3*
- • CMGT 430 - Environmental Issues and Green Building *Units: 3*
- • CMGT 440 - Construction Project Management *Units: 3*
- • CMGT 480 - Construction Safety *Units: 3*
- • CMGT 490 - Independent Study *Units: 1-3*
- • CMGT 493 - Senior Project *Units: 4*
- • CMGT 497 - Issues in Construction Management *Units: 3*

Construction Management: Graduate

- • CMGT 610 - BIM and Advanced Technologies *Units: 3*
- • CMGT 620 - Legal Issues in Construction Management *Units: 3*
- • CMGT 630 - Environmental Issues and Sustainable Construction *Units: 3*
- • CMGT 640 - Cost Estimating for Construction Management *Units: 3*
- • CMGT 650 - Construction Project Management, Planning, and Scheduling *Units: 3*
- • CMGT 660 - Cost Accounting, Control and Reporting in Construction *Units: 3*
- • CMGT 670 - Construction Enterprise and Risk Management *Units: 3*
- • CMGT 675 - Temporary Structures in Construction *Units: 3*
- • CMGT 680 - Construction Safety and Health *Units: 3*
- • CMGT 685 - Special Topics in Construction Management *Units: 3*
- • CMGT 690 - Independent Study *Units: 3*
- • CMGT 693A - Applied Research in Construction Management *Units: 3*
- • CMGT 693B - Master's Project Capstone *Units: 3*
- • CMGT 697 - Issues in Construction Management *Units: 3*

Engineering

- • ENGR 200 - Introduction to Engineering and Design *Units: 3 ; GE/GR Area: Writing II*
- • ENGR 210 - Manufacturing Materials and Processes *Units: 4*
- • ENGR 215 - Computational Methods in Engineering *Units: 3*
- • ENGR 220 - Statics *Units: 3*
- • ENGR 221 - Dynamics *Units: 3*
- • ENGR 230 - Electric Circuits I *Units: 3*

- • ENGR 310 - CAD/CAM Graphics *Units: 3*
- • ENGR 320 - Engineering Economics *Units: 3*
- • ENGR 400A - Historical Architectural Virtual Prototyping I *Units: 4 ; G.E./G.R. Area: D4*
- • ENGR 400B - Historical Architectural Virtual Prototyping II *Units: 4*

Engineering: Graduate

- • ENGR 610 - Analytical Methods In Engineering Management *Units: 3*
- • ENGR 615 - Finance for Engineers *Units: 3*
- • ENGR 620 - System Modeling with Simulation *Units: 3*
- • ENGR 630 - Quality and Reliability Management *Units: 3*
- • ENGR 640 - Engineering Sustainable Supply Chains *Units: 3*
- • ENGR 650 - Project Management *Units: 3*
- • ENGR 660 - Sustainable Product and Process Design *Units: 3*
- • ENGR 670 - Design and Management of Human Work Systems *Units: 3*
- • ENGR 680 - Engineering Systems Modeling *Units: 3*
- • ENGR 690 - Independent Study *Units: 3*
- • ENGR 693A - Applied Research in Engineering Management *Units: 3*
- • ENGR 693B - Master's Project Capstone *Units: 3*
- • ENGR 697 - Issues in Engineering Management *Units: 3*

Industrial Engineering

- • INDE 330 - Engineering Statistics and Probability *Units: 3*
- • INDE 340 - Design of Engineering Experiments *Units: 3*
- • INDE 360 - Operations Research *Units: 4*
- • INDE 390 - Human Factors and Work Methods *Units: 4 ; G.E./G.R. Area: B6*
- • INDE 410 - Facility Planning, Design and Material Handling *Units: 3*
- • INDE 420 - Discrete Event Simulation *Units: 3*
- • INDE 430 - Design of Work Systems *Units: 4*
- • INDE 440 - Sustainable Production and Supply Chain Systems *Units: 4*
- • INDE 450 - Systems Quality & Reliability *Units: 4*
- • INDE 460 - Service and Manufacturing Systems Modeling *Units: 4*
- • INDE 490 - Independent Study *Units: 1-3*
- • INDE 492 - Senior Design *Units: 4*
- • INDE 497 - Issues in Industrial Engineering *Units: 3*
- • INDE 498 - Internship *Units: 1-3*

Construction Management, B.S.

Construction Management, B.S. Program (120 units)

Program Description

The goals of the B.S. degree in Construction Management are to prepare effective managers for public and private construction projects, to prepare the workforce required by the construction industry, and to enable high school graduates, transfer students and working professionals to assume leadership roles in the construction industry. Special attention is given to promote students participating in internships and working professionals with classes offered mainly at times convenient to students.

Career Opportunities

With the expected increase in large construction work, in part stemming from the increase in public spending on California's transportation infrastructure improvement, there is considerable demand for individuals who can technically and scientifically manage large construction projects. Also, there are increasing opportunities from the local and regional high tech sector for expansion and new construction projects. The construction industry, as a whole, is one of the largest industries in the nation with a great need for skilled project managers. Sample jobs are construction manager, site manager and others.

Program Learning Outcomes

Students graduating with a B.S. in Construction Management will be able to:

- Create written communications appropriate to the construction discipline.
- Create oral presentations appropriate to the construction discipline.
- Create a construction project safety plan.
- Create construction project cost estimates.
- Create construction project schedules.
- Analyze professional decisions based on ethical principles.
- Analyze construction documents for planning and management of construction processes.
- Analyze methods, materials, and equipment used to construct projects.
- Apply construction management skills as a member of a multi-disciplinary team.
- Apply electronic-based technology to manage the construction process.
- Apply basic surveying techniques for construction layout and control.
- Understand different methods of project delivery and the roles and responsibilities of all constituencies involved in the design and construction process.
- Understand construction risk management.
- Understand construction accounting and cost control.
- Understand construction quality assurance and control.
- Understand construction project control processes.
- Understand the legal implications of contract, common, and regulatory law to manage a construction project.
- Understand the basic principles of sustainable construction.
- Understand the basic principles of structural behavior.
- Understand the basic principles of mechanical, electrical and piping systems.

Degree Requirements Unit-Outline

- A baccalaureate of science degree requires a total of 120 units:
- The major requirements consists of 78 units;
- General Education (GE) & Graduation Requirements (GR) consists of 57 units;
- Free Electives may consist of 0 units (*actual number of free elective units may depend on GE/GR units*).

Note: It may be possible to double-count units within the graduation requirements or that a course may satisfy both a graduation requirement and a major requirement. Students should contact their program and AACE advisors for information.

Construction Management Major Requirements (81 units)

Lower Division Core

The following 37 units of interdisciplinary coursework is required:

- ACCT 210 - Introduction to Financial Accounting *Units: 3*
- CHEM 110 - General Chemistry for Engineering *Units: 3 ; G.E./G.R. Area: B1, B3*
- CMGT 101 - Introduction to Construction Management *Units: 3*
- CMGT 142 - Construction Graphics and Plans Reading *Units: 2*
- CMGT 201 - Surveying *Units: 2*
- CMGT 206 - Construction Materials *Units: 3*
- CMGT 207 - Construction Methods *Units: 3*
- ECON 200 - Principles of Microeconomics *Units: 3 ; G.E./G.R. Area: D1-3; Social Justice*
- MATH 130 - Calculus I *Units: 4 ; G.E./G.R. Area: B4*
- PHYS 125 - Principles of Physics I *Units: 4 ; G.E./G.R. Area: B1, B3*
- PHYS 126 - Principles of Physics II *Units: 4 ; G.E./G.R. Area: B1, B3*
- PSYC 100 - General Psychology *Units: 3 ; G.E./G.R. Area: D1-3*

Upper Division Core

The following 41 units are required:

- CMGT 310 - Statics and Strength of Materials *Units: 3*
- CMGT 320 - Construction Law *Units: 3*
- CMGT 325 - Electrical and Mechanical Systems in Construction *Units: 3*
- CMGT 340 - Construction Cost Estimating *Units: 3*
- CMGT 345 - Building Codes and Commissioning *Units: 3*
- CMGT 350 - Construction Project Planning, Scheduling and Control *Units: 4*
- CMGT 360 - Soil Mechanics and Building Foundations *Units: 3*
- CMGT 410 - Building Information Modeling *Units: 3*
- CMGT 430 - Environmental Issues and Green Building *Units: 3*
- CMGT 440 - Construction Project Management *Units: 3*
- CMGT 480 - Construction Safety *Units: 3*
- CMGT 493 - Senior Project *Units: 4*
- MGMT 312 - Human Resources Management *Units: 3*

Elective Courses

Select one (1) course for 3 units from the following (or other 300 and/or 400 level courses with department approval):

- ACCT 215 - Introduction to Managerial Accounting *Units: 3*
- ACCT 302 - Cost Accounting *Units: 3*
- BUS 220 - Legal Environment of Business *Units: 3 ; G.E./G.R. Area: D1-3; Social Justice*
- BUS 330 - Financial Management *Units: 3*
- FIN 480 - Real Estate Finance *Units: 3*

- FIN 482 - Real Estate Valuation *Units: 3*
- MGMT 314 - Leadership and Management *Units: 3*
- MGMT 350 - Decision Science *Units: 3 ; G.E./G.R. Area: B6*
- MGMT 364 - Global Supply Chain Management *Units: 3*

Other Undergraduate Degree Requirements

In addition to major requirements, every student must also complete the University's baccalaureate requirements for graduation, which are described in the Requirements, Exams & Testing chapter of this catalog.

Department Courses Listed by Course Type

Engineering Courses

School of Engineering

Go to information for this department.

Courses

Computer Engineering

- • CMPE 330 - Electric Circuits II *Units: 3*
- • CMPE 344 - Microprocessor Laboratory *Units: 3*
- • CMPE 370 - Digital Signal Processing I *Units: 3*
- • CMPE 398 - Internship *Units: 1-3*
- • CMPE 421 - Computer Architecture II *Units: 3*
- • CMPE 430 - Analog Design *Units: 3*
- • CMPE 470 - Digital Signal Processing II *Units: 4*
- • CMPE 480 - VLSI Circuit Design/Layout *Units: 3*
- • CMPE 490 - Independent Study *Units: 1-4*
- • CMPE 492 - Senior Design I *Units: 3*
- • CMPE 493 - Senior Capstone: Senior Design II *Units: 3*
- • CMPE 497 - Issues in Computer Engineering *Units: 3*

Construction Management

- • CMGT 101 - Introduction to Construction Management *Units: 3*
- • CMGT 142 - Construction Graphics and Plans Reading *Units: 2*
- • CMGT 201 - Surveying *Units: 2*
- • CMGT 206 - Construction Materials *Units: 3*
- • CMGT 207 - Construction Methods *Units: 3*
- • CMGT 310 - Statics and Strength of Materials *Units: 3*
- • CMGT 320 - Construction Law *Units: 3*
- • CMGT 325 - Electrical and Mechanical Systems in Construction *Units: 3*
- • CMGT 340 - Construction Cost Estimating *Units: 3*
- • CMGT 345 - Building Codes and Commissioning *Units: 3*

- • CMGT 350 - Construction Project Planning, Scheduling and Control *Units: 4*
- • CMGT 360 - Soil Mechanics and Building Foundations *Units: 3*
- • CMGT 410 - Building Information Modeling *Units: 3*
- • CMGT 430 - Environmental Issues and Green Building *Units: 3*
- • CMGT 440 - Construction Project Management *Units: 3*
- • CMGT 480 - Construction Safety *Units: 3*
- • CMGT 490 - Independent Study *Units: 1-3*
- • CMGT 493 - Senior Project *Units: 4*
- • CMGT 497 - Issues in Construction Management *Units: 3*

Construction Management: Graduate

- • CMGT 610 - BIM and Advanced Technologies *Units: 3*
- • CMGT 620 - Legal Issues in Construction Management *Units: 3*
- • CMGT 630 - Environmental Issues and Sustainable Construction *Units: 3*
- • CMGT 640 - Cost Estimating for Construction Management *Units: 3*
- • CMGT 650 - Construction Project Management, Planning, and Scheduling *Units: 3*
- • CMGT 660 - Cost Accounting, Control and Reporting in Construction *Units: 3*
- • CMGT 670 - Construction Enterprise and Risk Management *Units: 3*
- • CMGT 675 - Temporary Structures in Construction *Units: 3*
- • CMGT 680 - Construction Safety and Health *Units: 3*
- • CMGT 685 - Special Topics in Construction Management *Units: 3*
- • CMGT 690 - Independent Study *Units: 3*
- • CMGT 693A - Applied Research in Construction Management *Units: 3*
- • CMGT 693B - Master's Project Capstone *Units: 3*
- • CMGT 697 - Issues in Construction Management *Units: 3*

Engineering

- • ENGR 200 - Introduction to Engineering and Design *Units: 3 ; GE/GR Area: Writing II*
- • ENGR 210 - Manufacturing Materials and Processes *Units: 4*
- • ENGR 215 - Computational Methods in Engineering *Units: 3*
- • ENGR 220 - Statics *Units: 3*
- • ENGR 221 - Dynamics *Units: 3*
- • ENGR 230 - Electric Circuits I *Units: 3*
- • ENGR 310 - CAD/CAM Graphics *Units: 3*
- • ENGR 320 - Engineering Economics *Units: 3*
- • ENGR 400A - Historical Architectural Virtual Prototyping I *Units: 4 ; G.E./G.R. Area: D4*
- • ENGR 400B - Historical Architectural Virtual Prototyping II *Units: 4*

Engineering: Graduate

- • ENGR 610 - Analytical Methods In Engineering Management *Units: 3*
- • ENGR 615 - Finance for Engineers *Units: 3*
- • ENGR 620 - System Modeling with Simulation *Units: 3*
- • ENGR 630 - Quality and Reliability Management *Units: 3*
- • ENGR 640 - Engineering Sustainable Supply Chains *Units: 3*
- • ENGR 650 - Project Management *Units: 3*
- • ENGR 660 - Sustainable Product and Process Design *Units: 3*
- • ENGR 670 - Design and Management of Human Work Systems *Units: 3*
- • ENGR 680 - Engineering Systems Modeling *Units: 3*
- • ENGR 690 - Independent Study *Units: 3*

- • ENGR 693A - Applied Research in Engineering Management *Units: 3*
- • ENGR 693B - Master's Project Capstone *Units: 3*
- • ENGR 697 - Issues in Engineering Management *Units: 3*

Industrial Engineering

- • INDE 330 - Engineering Statistics and Probability *Units: 3*
- • INDE 340 - Design of Engineering Experiments *Units: 3*
- • INDE 360 - Operations Research *Units: 4*
- • INDE 390 - Human Factors and Work Methods *Units: 4 ; G.E./G.R. Area: B6*
- • INDE 410 - Facility Planning, Design and Material Handling *Units: 3*
- • INDE 420 - Discrete Event Simulation *Units: 3*
- • INDE 430 - Design of Work Systems *Units: 4*
- • INDE 440 - Sustainable Production and Supply Chain Systems *Units: 4*
- • INDE 450 - Systems Quality & Reliability *Units: 4*
- • INDE 460 - Service and Manufacturing Systems Modeling *Units: 4*
- • INDE 490 - Independent Study *Units: 1-3*
- • INDE 492 - Senior Design *Units: 4*
- • INDE 497 - Issues in Industrial Engineering *Units: 3*
- • INDE 498 - Internship *Units: 1-3*

Industrial Engineering, B.S.

Industrial Engineering, B.S. Program (125 units) * see Errata-Program page

Program Description

Reach your full potential in the field of engineering and - realize the future you envision with an undergraduate degree in Industrial Engineering from California State University, East Bay (CSUEB). As a graduate of CSUEB's ABET accredited Industrial Engineering degree program you'll be prepared for a highly rewarding professional career designing, building, and managing state-of-the-art manufacturing and service systems. Industrial Engineers serve an essential need in today's technical society as the interface between humans and technology. Industrial engineers work to improve the quality and efficiency of the production of goods and delivery of services.

Career Opportunities

Career opportunities for industrial engineers exist in many sectors including manufacturing, services, financial, healthcare, pharmaceutical, high tech. It also involves many functions such as planning, logistics and supply chain optimization, quality, forecasting and simulation, project supervision and improvement.

Features

Relatively small class sizes, easy access to faculty for advising and academic help, good opportunities for internships.

Program Learning Outcomes

Students who graduate with a B.S. in Industrial Engineering will be able to:

- An ability to identify, formulate, and solve complex engineering problems by applying principles of engineering, science, and mathematics.
- An ability to apply engineering design to produce solutions that meet specified needs with consideration of public health, safety, and welfare, as well as global, cultural, social, environmental, and economic factors.
- An ability to communicate effectively with a range of audiences.
- An ability to recognize ethical and professional responsibilities in engineering situations and make informed judgments, which must consider the impact of engineering solutions in global, economic, environmental, and societal contexts.
- An ability to function effectively on a team whose members together provide leadership, create a collaborative and inclusive environment, establish goals, plan tasks, and meet objectives.
- An ability to develop and conduct appropriate experimentation, analyze and interpret data, and use engineering judgment to draw conclusions.
- An ability to acquire and apply new knowledge as needed, using appropriate learning strategies.

Degree Requirements Unit-Outline

- A baccalaureate of science degree requires a total of 125 units: *see Errata - Programs page
 - The major requirements consists of 89 units;
 - General Education (GE) & Graduation Requirements (GR) consists of 57 units;
 - Free Electives may consist of 0 units (*actual number of free elective units may depend on GE/GR units*).
- Note: It may be possible to double-count units within the graduation requirements or that a course may satisfy both a graduation requirement and a major requirement. Students should contact their program and AACE advisors for information.*

Industrial Engineering Major Requirements (89 units)

Lower Division Core

The following 40 units of lower-division interdisciplinary coursework is required:

- CHEM 110 - General Chemistry for Engineering Units: 3 ; G.E./G.R. Area: B1, B3
- ENGR 200 - Introduction to Engineering and Design Units: 3 ; GE/GR Area: Writing II
- ENGR 210 - Manufacturing Materials and Processes Units: 4
- ENGR 215 - Computational Methods in Engineering Units: 3
- ENGR 220 - Statics Units: 3
- ENGR 230 - Electric Circuits I Units: 3
- MATH 130 - Calculus I Units: 4 ; G.E./G.R. Area: B4
- MATH 131 - Calculus II Units: 3
- MATH 210 - Linear Algebra with Differential Equations Units: 3
- PHYS 135 - Physics for Scientists and Engineers I Units: 4 ; G.E./G.R. Area: B1, B3
- PHYS 136 - Physics for Scientists and Engineers II Units: 4
- PSYC 100 - General Psychology Units: 3 ; G.E./G.R. Area: D1-3

Upper Division Core

The following 43 units of upper-division Engineering coursework is required:

- ENGR 320 - Engineering Economics *Units: 3*
- INDE 330 - Engineering Statistics and Probability *Units: 3*
or STAT 316 Statistics and Probability for Science and Engineering
- INDE 340 - Design of Engineering Experiments *Units: 3*
- INDE 360 - Operations Research *Units: 4*
- INDE 390 - Human Factors and Work Methods *Units: 4 ; G.E./G.R. Area: B6*
- INDE 410 - Facility Planning, Design and Material Handling *Units: 3*
- INDE 420 - Discrete Event Simulation *Units: 3*
- INDE 430 - Design of Work Systems *Units: 4*
- INDE 440 - Sustainable Production and Supply Chain Systems *Units: 4*
- INDE 450 - Systems Quality & Reliability *Units: 4*
- INDE 460 - Service and Manufacturing Systems Modeling *Units: 4*
- INDE 492 - Senior Design *Units: 4*

Elective Courses

Under consultation with their advisor, students shall select a minimum of 6 units of approved, upper-division Math/Basic Science elective courses.

Other Undergraduate Degree Requirements

In addition to major requirements, every student must also complete the University's baccalaureate requirements for graduation, which are described in the Requirements, Exams & Testing chapter of this catalog.

Department Courses Listed by Course Type

Engineering Courses

School of Engineering

Go to information for this department.

Courses

Computer Engineering

- • CMPE 330 - Electric Circuits II *Units: 3*
- • CMPE 344 - Microprocessor Laboratory *Units: 3*
- • CMPE 370 - Digital Signal Processing I *Units: 3*
- • CMPE 398 - Internship *Units: 1-3*
- • CMPE 421 - Computer Architecture II *Units: 3*

- • CMPE 430 - Analog Design *Units: 3*
- • CMPE 470 - Digital Signal Processing II *Units: 4*
- • CMPE 480 - VLSI Circuit Design/Layout *Units: 3*
- • CMPE 490 - Independent Study *Units: 1-4*
- • CMPE 492 - Senior Design I *Units: 3*
- • CMPE 493 - Senior Capstone: Senior Design II *Units: 3*
- • CMPE 497 - Issues in Computer Engineering *Units: 3*

Construction Management

- • CMGT 101 - Introduction to Construction Management *Units: 3*
- • CMGT 142 - Construction Graphics and Plans Reading *Units: 2*
- • CMGT 201 - Surveying *Units: 2*
- • CMGT 206 - Construction Materials *Units: 3*
- • CMGT 207 - Construction Methods *Units: 3*
- • CMGT 310 - Statics and Strength of Materials *Units: 3*
- • CMGT 320 - Construction Law *Units: 3*
- • CMGT 325 - Electrical and Mechanical Systems in Construction *Units: 3*
- • CMGT 340 - Construction Cost Estimating *Units: 3*
- • CMGT 345 - Building Codes and Commissioning *Units: 3*
- • CMGT 350 - Construction Project Planning, Scheduling and Control *Units: 4*
- • CMGT 360 - Soil Mechanics and Building Foundations *Units: 3*
- • CMGT 410 - Building Information Modeling *Units: 3*
- • CMGT 430 - Environmental Issues and Green Building *Units: 3*
- • CMGT 440 - Construction Project Management *Units: 3*
- • CMGT 480 - Construction Safety *Units: 3*
- • CMGT 490 - Independent Study *Units: 1-3*
- • CMGT 493 - Senior Project *Units: 4*
- • CMGT 497 - Issues in Construction Management *Units: 3*

Construction Management: Graduate

- • CMGT 610 - BIM and Advanced Technologies *Units: 3*
- • CMGT 620 - Legal Issues in Construction Management *Units: 3*
- • CMGT 630 - Environmental Issues and Sustainable Construction *Units: 3*
- • CMGT 640 - Cost Estimating for Construction Management *Units: 3*
- • CMGT 650 - Construction Project Management, Planning, and Scheduling *Units: 3*
- • CMGT 660 - Cost Accounting, Control and Reporting in Construction *Units: 3*
- • CMGT 670 - Construction Enterprise and Risk Management *Units: 3*
- • CMGT 675 - Temporary Structures in Construction *Units: 3*
- • CMGT 680 - Construction Safety and Health *Units: 3*
- • CMGT 685 - Special Topics in Construction Management *Units: 3*
- • CMGT 690 - Independent Study *Units: 3*
- • CMGT 693A - Applied Research in Construction Management *Units: 3*
- • CMGT 693B - Master's Project Capstone *Units: 3*
- • CMGT 697 - Issues in Construction Management *Units: 3*

Engineering

- • ENGR 200 - Introduction to Engineering and Design *Units: 3 ; GE/GR Area: Writing II*
- • ENGR 210 - Manufacturing Materials and Processes *Units: 4*
- • ENGR 215 - Computational Methods in Engineering *Units: 3*

- • ENGR 220 - Statics *Units: 3*
- • ENGR 221 - Dynamics *Units: 3*
- • ENGR 230 - Electric Circuits I *Units: 3*
- • ENGR 310 - CAD/CAM Graphics *Units: 3*
- • ENGR 320 - Engineering Economics *Units: 3*
- • ENGR 400A - Historical Architectural Virtual Prototyping I *Units: 4 ; G.E./G.R. Area: D4*
- • ENGR 400B - Historical Architectural Virtual Prototyping II *Units: 4*

Engineering: Graduate

- • ENGR 610 - Analytical Methods In Engineering Management *Units: 3*
- • ENGR 615 - Finance for Engineers *Units: 3*
- • ENGR 620 - System Modeling with Simulation *Units: 3*
- • ENGR 630 - Quality and Reliability Management *Units: 3*
- • ENGR 640 - Engineering Sustainable Supply Chains *Units: 3*
- • ENGR 650 - Project Management *Units: 3*
- • ENGR 660 - Sustainable Product and Process Design *Units: 3*
- • ENGR 670 - Design and Management of Human Work Systems *Units: 3*
- • ENGR 680 - Engineering Systems Modeling *Units: 3*
- • ENGR 690 - Independent Study *Units: 3*
- • ENGR 693A - Applied Research in Engineering Management *Units: 3*
- • ENGR 693B - Master's Project Capstone *Units: 3*
- • ENGR 697 - Issues in Engineering Management *Units: 3*

Industrial Engineering

- • INDE 330 - Engineering Statistics and Probability *Units: 3*
- • INDE 340 - Design of Engineering Experiments *Units: 3*
- • INDE 360 - Operations Research *Units: 4*
- • INDE 390 - Human Factors and Work Methods *Units: 4 ; G.E./G.R. Area: B6*
- • INDE 410 - Facility Planning, Design and Material Handling *Units: 3*
- • INDE 420 - Discrete Event Simulation *Units: 3*
- • INDE 430 - Design of Work Systems *Units: 4*
- • INDE 440 - Sustainable Production and Supply Chain Systems *Units: 4*
- • INDE 450 - Systems Quality & Reliability *Units: 4*
- • INDE 460 - Service and Manufacturing Systems Modeling *Units: 4*
- • INDE 490 - Independent Study *Units: 1-3*
- • INDE 492 - Senior Design *Units: 4*
- • INDE 497 - Issues in Industrial Engineering *Units: 3*
- • INDE 498 - Internship *Units: 1-3*

Master

Construction Management, M.S.

Construction Management, M.S. Program

Department Information

The School of Engineering offers undergraduate degrees in Industrial Engineering Computer Engineering and Construction Management, and graduate degrees in Engineering Management and Construction Management. Certificates in Quality, Project Management, Construction Planning and Control and Construction Administration are also offered. The School serves a diverse regional and international student population, and utilizes modern tools and laboratories for active learning and student engagement while emphasizing collaborative learning.

Program Description

The School of Engineering is offering a Master's of Science degree in Construction Management. This degree is targeted for working professionals who are in leadership/management positions in the construction industry or planning to advance their careers to manage large construction projects.

The goals of the Masters of Science degree in Construction Management are to prepare effective managers for large public and private construction projects, to prepare the workforce required for the state's transportation infrastructure improvements, and to enable current and future engineers and other professionals to assume leadership roles in the construction industry.

This program is different from other construction management programs as it is based on a well-balanced curriculum covering various aspects of the construction management profession. Special attention is given to working professionals with classes offered at times convenient for the students. Students will take required courses in legal and environmental issues in construction, advanced technology, project planning and control, cost estimating, financial and risk management issues. Also issues in construction safety and current trends in construction industry will be discussed. Students will also have a broad choice of electives from courses in construction management, engineering, business, or other graduate courses with department approval.

Career Opportunities

With the expected increase in large construction work, in part stemming from the increase in public spending on California's transportation infrastructure improvement, there is considerable demand for individuals who can technically and scientifically manage large construction projects. Also, there are increasing opportunities from the local and regional high tech sector for expansion and new construction projects. The construction industry, as a whole, is one of the largest industries in the nation with a great need for skilled project managers. Sample jobs are construction manager, site manager and others.

Admission Requirements

The M.S. in Construction Management is open to individuals planning a career or advancing their career in the construction industry, and who have:

- A baccalaureate degree from an accredited university with a minimum overall GPA of 2.5 (4.0 basis) in their undergraduate work,
- Relevant work or academic experience, and
- College Algebra and Trigonometry or equivalent level math courses.

In addition to the University Graduate and Post-baccalaureate Application, all applicants should submit to the department:

- Personal statement explaining their reasons for wanting to pursue the M.S. in Construction Management degree,

- A resume detailing their professional and academic achievements, and
- Two letters of recommendation.

Admission to the University and admission to the M.S. in Construction Management degree program are separate steps.

For **international students**, check with CSUEB Center for International Education (CIE) for further requirements. In addition, proficiency in English language is required for all students to whom English is not their native language.

Student Standing and Progress Toward the Degree

There are three categories of student status which reflect student progress toward the degree: "Conditionally Classified Graduate" student, "Classified Graduate" student, and "Advancement to Candidacy" student.

- Students achieve "Conditionally Classified Graduate" status when they have been admitted to the M.S. in Construction Management degree program, but have not yet completed the prerequisites for "Classified Graduate" status in the M.S. in Construction Management.
- Students achieve "Classified Graduate" status when they have satisfied the University Writing Skills Requirement and completed all program prerequisites. For information on meeting the University Writing Skills Requirement, see the Testing Office website at www.csueastbay.edu/testing or call (510) 885-3661.
- Students are advanced to Candidacy when they have completed the required courses with a 3.0 or better GPA.

Note: Students who fail to maintain progress by falling below a 3.0 GPA in their graduate courses for two or more consecutive semesters will be academically disqualified from the university.

Program Learning Outcomes

Students graduating with a M.S. Construction Management degree from Cal State East Bay will be able to:

- understand and implement risk management, scheduling and estimating, building information modeling, high performance building assessment systems, and project delivery methods.
- use effective communication skills to solve practical construction problems, explain and defend the application of advanced construction practices associated with planning, staffing, scheduling and controlling construction projects.
- plan and deliver a project meeting the desired needs within realistic constraints such as economic, environmental, social, political, ethical, health and safety, constructability, and sustainability.

Degree Requirements

The M.S. degree program in Construction Management requires completion of 36 semester units distributed among required courses, elective courses, and the project or comprehensive exam. Of these units, at least 27 units must be completed in residence (transfer units are limited to 9 semester units); at least 30 units must be in courses in the 600 series. No course numbered 100 to 299 (or equivalent if taken elsewhere) may be used as part of the 36-unit graduate degree program.

No more than 3 units of Independent Study (CMGT 690) may be counted toward the 36 units required for the degree. Project credit may not exceed 3 units.

A grade point average of 3.0 must be maintained in all 36-semester units taken to satisfy the degree requirements. All graduate degree requirements must be completed within five (5) years.

Construction Management Degree Requirements (36 units)

Core Courses

The following 27 units are required:

- CMGT 610 - BIM and Advanced Technologies *Units: 3*
- CMGT 620 - Legal Issues in Construction Management *Units: 3*
- CMGT 630 - Environmental Issues and Sustainable Construction *Units: 3*
- CMGT 640 - Cost Estimating for Construction Management *Units: 3*
- CMGT 650 - Construction Project Management, Planning, and Scheduling *Units: 3*
- CMGT 660 - Cost Accounting, Control and Reporting in Construction *Units: 3*
- CMGT 670 - Construction Enterprise and Risk Management *Units: 3*
- CMGT 680 - Construction Safety and Health *Units: 3*
- CMGT 685 - Special Topics in Construction Management *Units: 3*

Elective Courses

Students completing the capstone must take 6 elective units. Those who elect to take the comprehensive exam need to take an additional third elective (a total of 9 elective units) with the comprehensive exam to satisfy the graduation requirement.

Electives can be chosen from other graduate programs with departmental approval.

- CMGT 697 - Issues in Construction Management *Units: 3*
- CMGT 690 - Independent Study *Units: 3*
- CMGT 675 - Temporary Structures in Construction *Units: 3*

Capstone Requirement

To complete a capstone project requirement, students enroll in one (1) of the capstone courses below for 3 units *or pass a comprehensive exam*. Students who elect to take the comprehensive exam cannot take CMGT 693A or CMGT 693B, but have to complete an additional 3 unit elective.

The Applied Research in Construction Management, CMGT 693A, is a capstone course based on the coursework completed for the degree and is accompanied by a written document. The Master's Project Capstone, CMGT 693B, is an individual research project where a faculty member from the department supervises the student's work. One copy of the written component of the project is required by the department.

For comprehensive exam and other information, see your graduate advisor.

Grades of "RP" (Report in Progress) may be given for CMGT 693A or CMGT 693B if the project is not completed at the end of the semester. The "RP" grade must be removed within one year or it will become an "F".

- CMGT 693A - Applied Research in Construction Management *Units: 3*
- CMGT 693B - Master's Project Capstone *Units: 3*

Other Graduate & Post-Baccalaureate Degree Requirements

In addition to departmental requirements, every student must also satisfy the University requirements for graduation as described throughout this catalog. These include the 70% unit residence requirement; the five-year rule on currency of subject matter; the minimum number of units in 600-level courses; the "C" minimum grade for each graduate course; the 3.00 cumulative grade point average; and the University Writing Skills Requirement.

Note: For information on meeting the University Writing Skills Requirement, see the Testing Office website at www.csueastbay.edu/testing or call (510) 885-3661.

Department Courses Listed by Course Type

Engineering Courses

School of Engineering

Go to information for this department.

Courses

Computer Engineering

- • CMPE 330 - Electric Circuits II *Units: 3*
- • CMPE 344 - Microprocessor Laboratory *Units: 3*
- • CMPE 370 - Digital Signal Processing I *Units: 3*
- • CMPE 398 - Internship *Units: 1-3*
- • CMPE 421 - Computer Architecture II *Units: 3*
- • CMPE 430 - Analog Design *Units: 3*
- • CMPE 470 - Digital Signal Processing II *Units: 4*
- • CMPE 480 - VLSI Circuit Design/Layout *Units: 3*
- • CMPE 490 - Independent Study *Units: 1-4*
- • CMPE 492 - Senior Design I *Units: 3*
- • CMPE 493 - Senior Capstone: Senior Design II *Units: 3*
- • CMPE 497 - Issues in Computer Engineering *Units: 3*

Construction Management

- • CMGT 101 - Introduction to Construction Management *Units: 3*
- • CMGT 142 - Construction Graphics and Plans Reading *Units: 2*
- • CMGT 201 - Surveying *Units: 2*
- • CMGT 206 - Construction Materials *Units: 3*

- • CMGT 207 - Construction Methods *Units: 3*
- • CMGT 310 - Statics and Strength of Materials *Units: 3*
- • CMGT 320 - Construction Law *Units: 3*
- • CMGT 325 - Electrical and Mechanical Systems in Construction *Units: 3*
- • CMGT 340 - Construction Cost Estimating *Units: 3*
- • CMGT 345 - Building Codes and Commissioning *Units: 3*
- • CMGT 350 - Construction Project Planning, Scheduling and Control *Units: 4*
- • CMGT 360 - Soil Mechanics and Building Foundations *Units: 3*
- • CMGT 410 - Building Information Modeling *Units: 3*
- • CMGT 430 - Environmental Issues and Green Building *Units: 3*
- • CMGT 440 - Construction Project Management *Units: 3*
- • CMGT 480 - Construction Safety *Units: 3*
- • CMGT 490 - Independent Study *Units: 1-3*
- • CMGT 493 - Senior Project *Units: 4*
- • CMGT 497 - Issues in Construction Management *Units: 3*

Construction Management: Graduate

- • CMGT 610 - BIM and Advanced Technologies *Units: 3*
- • CMGT 620 - Legal Issues in Construction Management *Units: 3*
- • CMGT 630 - Environmental Issues and Sustainable Construction *Units: 3*
- • CMGT 640 - Cost Estimating for Construction Management *Units: 3*
- • CMGT 650 - Construction Project Management, Planning, and Scheduling *Units: 3*
- • CMGT 660 - Cost Accounting, Control and Reporting in Construction *Units: 3*
- • CMGT 670 - Construction Enterprise and Risk Management *Units: 3*
- • CMGT 675 - Temporary Structures in Construction *Units: 3*
- • CMGT 680 - Construction Safety and Health *Units: 3*
- • CMGT 685 - Special Topics in Construction Management *Units: 3*
- • CMGT 690 - Independent Study *Units: 3*
- • CMGT 693A - Applied Research in Construction Management *Units: 3*
- • CMGT 693B - Master's Project Capstone *Units: 3*
- • CMGT 697 - Issues in Construction Management *Units: 3*

Engineering

- • ENGR 200 - Introduction to Engineering and Design *Units: 3 ; GE/GR Area: Writing II*
- • ENGR 210 - Manufacturing Materials and Processes *Units: 4*
- • ENGR 215 - Computational Methods in Engineering *Units: 3*
- • ENGR 220 - Statics *Units: 3*
- • ENGR 221 - Dynamics *Units: 3*
- • ENGR 230 - Electric Circuits I *Units: 3*
- • ENGR 310 - CAD/CAM Graphics *Units: 3*
- • ENGR 320 - Engineering Economics *Units: 3*
- • ENGR 400A - Historical Architectural Virtual Prototyping I *Units: 4 ; G.E./G.R. Area: D4*
- • ENGR 400B - Historical Architectural Virtual Prototyping II *Units: 4*

Engineering: Graduate

- • ENGR 610 - Analytical Methods In Engineering Management *Units: 3*
- • ENGR 615 - Finance for Engineers *Units: 3*
- • ENGR 620 - System Modeling with Simulation *Units: 3*
- • ENGR 630 - Quality and Reliability Management *Units: 3*

- • ENGR 640 - Engineering Sustainable Supply Chains *Units: 3*
- • ENGR 650 - Project Management *Units: 3*
- • ENGR 660 - Sustainable Product and Process Design *Units: 3*
- • ENGR 670 - Design and Management of Human Work Systems *Units: 3*
- • ENGR 680 - Engineering Systems Modeling *Units: 3*
- • ENGR 690 - Independent Study *Units: 3*
- • ENGR 693A - Applied Research in Engineering Management *Units: 3*
- • ENGR 693B - Master's Project Capstone *Units: 3*
- • ENGR 697 - Issues in Engineering Management *Units: 3*

Industrial Engineering

- • INDE 330 - Engineering Statistics and Probability *Units: 3*
- • INDE 340 - Design of Engineering Experiments *Units: 3*
- • INDE 360 - Operations Research *Units: 4*
- • INDE 390 - Human Factors and Work Methods *Units: 4 ; G.E./G.R. Area: B6*
- • INDE 410 - Facility Planning, Design and Material Handling *Units: 3*
- • INDE 420 - Discrete Event Simulation *Units: 3*
- • INDE 430 - Design of Work Systems *Units: 4*
- • INDE 440 - Sustainable Production and Supply Chain Systems *Units: 4*
- • INDE 450 - Systems Quality & Reliability *Units: 4*
- • INDE 460 - Service and Manufacturing Systems Modeling *Units: 4*
- • INDE 490 - Independent Study *Units: 1-3*
- • INDE 492 - Senior Design *Units: 4*
- • INDE 497 - Issues in Industrial Engineering *Units: 3*
- • INDE 498 - Internship *Units: 1-3*

Engineering Management, M.S.

Engineering Management, M.S. Program

School Information

The School of Engineering offers undergraduate degrees in Industrial Engineering, Computer Engineering and Construction Management, and graduate degrees in Engineering Management and Construction Management. Certificates in Quality, Project Management, Construction Planning and Control and Construction Administration are also offered. The School serves a diverse regional and international student population, and utilizes modern tools and laboratories for active learning and student engagement while emphasizing collaborative learning.

Program Description

The California State University, East Bay School of Engineering, provides an interdisciplinary master's of science degree in Engineering Management. This degree is designed for working engineers and professionals who are in leadership/management positions or who are planning to advance their careers into the management of technical enterprises. It is also designed to benefit engineering or science graduates who are interested in assuming leadership positions in industry. Students gain theoretical and practical training in how to plan, organize, allocate resources, and direct and control activities that have technological components. The curriculum is distinctive in that it provides a blend of qualitative

management and quantitative industrial engineering skills. Courses are offered in engineering, business, computer science and statistics.

Career Opportunities

The Engineering Management Degree MS is designed for engineering or science graduates interested in assuming leadership positions in industry. Students gain theoretical and practical training in how to plan, organize, optimize and allocate resources, and to direct and control projects and activities that have technological components. Examples include: Managing technical enterprises and technical personnel; System analyst; Technical project leader. These positions occur in diverse industry sectors such as telecommunications, software development, healthcare, financial institutions and service industries.

Admission Requirements

The M.S. Degree in Engineering Management is open to students planning a career, or seeking to advance their career in managing technical enterprises who: (1) have a baccalaureate degree in engineering, basic science or related technical field from an accredited institution, and (2) have earned an overall grade point average of 2.5 (4.0 basis) or better in their undergraduate work. Degrees from foreign institutions will be individually evaluated. Submission of your GRE and/or GMAT results is highly recommended. In addition to the University Graduate and Post-baccalaureate Application, all applicants should submit the following materials along with their application to Graduate Admissions:

- Submit a personal statement with the application stating their reasons for wanting to pursue the M.S. in Engineering Management degree, describing relevant work experience, and explaining their past academic performance;
- Submit two letters of recommendation; and
- Submit a resume.

Admission to the university and admission to the M.S. in Engineering Management degree program are separate steps. **International students** check CSUEB Center for International Education (CIE) for further requirements.

Student Standing and Progress Toward the Degree

There are three categories of student status which reflect student progress toward the degree: "Conditionally Classified Graduate," "Classified Graduate," and "Advancement to Candidacy."

Students achieve "Conditionally Classified Graduate" status when they have been admitted to the M.S. in Engineering Management degree program, but have not yet completed the prerequisites for "Classified Graduate" status in the M.S. in Engineering Management degree program. Students achieve "Classified Graduate" status when they have satisfactorily completed the three prerequisites for the M.S. in Engineering Management degree program or their equivalents, and satisfied the University Writing Skills Requirement. (See "Prerequisites for Classified Graduate Status" below.) Students are Advanced to Candidacy when they have completed the required courses with a 3.0 or better GPA

Note: Students who fail to maintain progress by falling below a 3.0 GPA in their graduate courses for two or more consecutive semesters will be academically disqualified from the university.

Program Learning Outcomes

- Develop advanced analytical skills in optimization, planning and control, and other quantitative management techniques.
- Effectively manage teams of multi-disciplinary and multi-cultural professionals.
- Understand the impact of engineering and management decisions in a global, economic, environmental, and societal context.
- Have the ability to effectively and persuasively communicate.
- Recognize the need for, and have an ability to engage in, life-long learning.

Engineering Management Degree Requirements (30 units)

Prerequisites or Foundation Requirements

The prerequisites or foundation coursework below (or their equivalents) are required for all students in the M.S. in Engineering Management program. Please check individual course requirements for additional prerequisites. These prerequisites must be completed before beginning graduate-level coursework. This area may require 0-13 units that are not included in the major units:

- ACCT 210 - Introduction to Financial Accounting *Units: 3*
- ENGR 320 - Engineering Economics *Units: 3*

And, one (1) of the following for 3 units:

- INDE 330 - Engineering Statistics and Probability *Units: 3*
- STAT 316 - Statistics and Probability for Science and Engineering *Units: 3*
- STAT 330 - Statistical Inference *Units: 3*

Core Courses

The following 21 units of core coursework are required:

- ENGR 610 - Analytical Methods In Engineering Management *Units: 3*
- ENGR 615 - Finance for Engineers *Units: 3*
- ENGR 620 - System Modeling with Simulation *Units: 3*
- ENGR 630 - Quality and Reliability Management *Units: 3*
- ENGR 640 - Engineering Sustainable Supply Chains *Units: 3*
- ENGR 650 - Project Management *Units: 3*
- ENGR 660 - Sustainable Product and Process Design *Units: 3*

Elective Courses

Choose two (2) courses for 6 units:

- ENGR 670 - Design and Management of Human Work Systems *Units: 3*
- ENGR 680 - Engineering Systems Modeling *Units: 3*
- ENGR 690 - Independent Study *Units: 3*
- Or another 600-level course with departmental approval for a minimum of 3 units.

Capstone Requirement

Choose one (1) of the following options of capstone coursework for 3 units:

- ENGR 693A - Applied Research in Engineering Management *Units: 3*

OR

- ENGR 693B - Master's Project Capstone *Units: 3*

OR

- Comprehensive Exam and one (1) additional 600-level elective course for a minimum of 3 units with departmental approval.

Other Graduate & Post-Baccalaureate Degree Requirements

In addition to departmental requirements, every student must also satisfy the University requirements for graduation as described throughout this catalog. These include the 70% unit residence requirement; the five-year rule on currency of subject matter; the minimum number of units in 600-level courses; the "C" minimum grade for each graduate course; the 3.00 cumulative grade point average; and the University Writing Skills Requirement.

Note: For information on meeting the University Writing Skills Requirement, see the Testing Office website at www.csueastbay.edu/testing or call (510) 885-3661.

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- • CMPE 421 - Computer Architecture II *Units: 3*
- • CMPE 430 - Analog Design *Units: 3*
- • CMPE 470 - Digital Signal Processing II *Units: 4*
- • CMPE 480 - VLSI Circuit Design/Layout *Units: 3*
- • CMPE 490 - Independent Study *Units: 1-4*
- • CMPE 492 - Senior Design I *Units: 3*
- • CMPE 493 - Senior Capstone: Senior Design II *Units: 3*
- • CMPE 497 - Issues in Computer Engineering *Units: 3*

Construction Management

- • CMGT 101 - Introduction to Construction Management *Units: 3*
- • CMGT 142 - Construction Graphics and Plans Reading *Units: 2*
- • CMGT 201 - Surveying *Units: 2*
- • CMGT 206 - Construction Materials *Units: 3*
- • CMGT 207 - Construction Methods *Units: 3*
- • CMGT 310 - Statics and Strength of Materials *Units: 3*
- • CMGT 320 - Construction Law *Units: 3*
- • CMGT 325 - Electrical and Mechanical Systems in Construction *Units: 3*
- • CMGT 340 - Construction Cost Estimating *Units: 3*
- • CMGT 345 - Building Codes and Commissioning *Units: 3*
- • CMGT 350 - Construction Project Planning, Scheduling and Control *Units: 4*
- • CMGT 360 - Soil Mechanics and Building Foundations *Units: 3*
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- • CMGT 430 - Environmental Issues and Green Building *Units: 3*
- • CMGT 440 - Construction Project Management *Units: 3*
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- • CMGT 693A - Applied Research in Construction Management *Units: 3*
- • CMGT 693B - Master's Project Capstone *Units: 3*
- • CMGT 697 - Issues in Construction Management *Units: 3*

Engineering

- • ENGR 200 - Introduction to Engineering and Design *Units: 3 ; GE/GR Area: Writing II*
- • ENGR 210 - Manufacturing Materials and Processes *Units: 4*
- • ENGR 215 - Computational Methods in Engineering *Units: 3*
- • ENGR 220 - Statics *Units: 3*
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- • ENGR 230 - Electric Circuits I *Units: 3*
- • ENGR 310 - CAD/CAM Graphics *Units: 3*
- • ENGR 320 - Engineering Economics *Units: 3*
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Engineering: Graduate

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- • ENGR 697 - Issues in Engineering Management *Units: 3*

Industrial Engineering

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- • INDE 360 - Operations Research *Units: 4*
- • INDE 390 - Human Factors and Work Methods *Units: 4 ; G.E./G.R. Area: B6*
- • INDE 410 - Facility Planning, Design and Material Handling *Units: 3*
- • INDE 420 - Discrete Event Simulation *Units: 3*
- • INDE 430 - Design of Work Systems *Units: 4*
- • INDE 440 - Sustainable Production and Supply Chain Systems *Units: 4*
- • INDE 450 - Systems Quality & Reliability *Units: 4*
- • INDE 460 - Service and Manufacturing Systems Modeling *Units: 4*
- • INDE 490 - Independent Study *Units: 1-3*
- • INDE 492 - Senior Design *Units: 4*
- • INDE 497 - Issues in Industrial Engineering *Units: 3*
- • INDE 498 - Internship *Units: 1-3*

University Honors Program

Office of Undergraduate Studies

Student Services and Administration Building, Suite 4500

Phone: (510) 885-3716

E-mail: uhp@csueastbay.edu

Program Director

Shirley Yap (Mathematics)

Arnab Mukherjee (Health Sciences), Interim for Fall

Program Description

The University Honors Program provides outstanding students the opportunity for academic challenge by completing specialized courses, seminars, and projects under the direction of faculty mentors. They are

considered for periodic awards and scholarships. University Honors Program students also receive recognition on their official transcripts and diplomas, and enjoy special acknowledgement at both the Honors Convocation and commencement ceremonies.

Program Learning Outcomes

Students who complete the University Honors Program will be able to:

- Demonstrate the ability to design, plan, and execute an original research or creative project that would meet professional standards in a specialized discipline or interdisciplinary field.
- Effectively communicate the methods, techniques, and findings of their original research or creative project in a written, oral, or visual format.
- Work collaboratively with persons from different fields of specialization to address complex challenges and everyday problems.
- Demonstrate responsible leadership skills through participating in one or more significant organizational roles in Honors curricular or co-curricular projects or service-learning fieldwork.

Admission

Admission to the University Honors Program is open to students who have maintained at least a 3.6 GPA in their last 2 semesters of study at CSUEB or transfer students whose transferred course GPA is at least 3.6. In addition, all students considering applying to the honors program must intend to be enrolled in the University for at least two more years so that they will have sufficient time to complete the program requirements.

Program Course Requirements

Consult the University Honors Program Director for clarification and interpretation of course requirements.

To graduate from the program, every Honors student must satisfactorily complete:

- A minimum of two classes (each consisting of three or more course units) as Honors-designated courses. To earn the Honors designation for a particular course on their transcripts, students shall:
- Design, plan, and execute an original research or creative project in consultation with the course instructor, who agrees to evaluate the honors project in addition to, and separate from, assignments and assessments for the course in which the student is enrolled. Honors-designated courses may be in the student's major or minor, as well as in General Education and elective courses.
- Submit an instructor-approved project form for each course in which Honors projects will be completed to the University Honors Program Director for review and approval.
- Earn a letter grade of "B" (3.0 earned grade point) or better (see: Grading and Academic Standards FAQ) in the course in which an Honors project is completed.
- GS 309 Honors Service and Leadership (3 units) in students' sophomore or junior years, with a letter grade of "B" (3.0 earned grade point) or better.
- GS 399 Honors Presentation (1 unit) in their senior year, in conjunction with a capstone course within students' degree program, with a letter grade of "B" (3.0 earned grade point) or better.

Additional Breadth and Eligibility Requirements

Students must:

- Take Honors-designated courses with letter grades only. Credit/No Credit courses will not be accepted for Honors designation.
- Make progress towards program completion by taking at least one Honors-designated course per academic year, if needed, with a letter grade of "B" (3.0 earned grade point) or better.
- Maintain a cumulative GPA of 3.60.
- Attend one or more special learning, professional development at CSUEB each semester in which they are enrolled in the University Honors Program. Events sponsored by the Honors Student Council will be especially encouraged.

Early Registration

Excluding freshmen, all students in good standing in the University Honors Program enjoy Early Registration for most classes.

Special Recognition

University Honors Program students will receive special recognition at the Honors Convocation and/or at commencement in the academic year they graduate. University Honors Program students will also receive recognition on their transcripts and their diplomas, as well as a certificate of recognition from the program.

Program Director

The director coordinates University Honors Program courses, as well as special events for University Honors Program students and faculty. The director tracks student progress, invites eligible students to join the program, and notifies students who are failing to meet the program requirements.

Cal State East Bay General Education Program & Breadth Requirements

- Purpose of General Education (GE)
- Objectives
- GE Requirements
- Lower-Division Requirements
- Upper-Division Requirements
- GE Checklist
- Quarter System GE Requirements
- Local Breadth Requirements

The Purpose of General Education

General Education (GE) empowers students to become independent thinkers, able to transform their learning into meaningful action. Cal State East Bay's GE Program is designed to educate its students holistically and is central to the university experience. The GE Program provides students with opportunities to explore disciplines and ideas that are new, that may change their world perspectives, and that help define them as educated citizens of the global community.

While a college diploma opens doors to career and employment opportunities, the true value of the degree is not the degree itself but the experiences and relationships developed while in college--the value is in the journey not the destination. Cal State East Bay's campus community is dedicated to supporting students through their journey. Although students may struggle to make meaning and see the immediate benefits of their college curriculum as they look to the end goal of graduation, Cal State East Bay is focused on its graduates being educated people whose quality of life will be vastly improved by the college experience. Students should make the best use of all opportunities and resources open to them, including the selection of courses that make up their GE pathway.

Objectives

Every undergraduate student at Cal State East Bay follows a degree program composed primarily of major courses and GE courses. Successful completion of these courses assures that graduates make measurable progress toward becoming truly educated persons who can contribute to a diverse society. The GE Program and Breadth Requirements are designed and organized to help students attain the program's objectives, which are aligned to Cal State East Bay's Institutional Learning Outcomes and to the Essential Learning Outcomes of the Liberal Education and America's Promise (LEAP) initiative, all of which express the knowledge, skills, and values Cal State East Bay graduates are expected to attain. These outcomes include:

- knowledge of human cultures and the physical and natural world through study in the sciences and mathematics, social sciences, humanities, histories, languages, and arts;

- intellectual and practical skills, including inquiry and analysis, critical and creative thinking, written and oral communication, quantitative literacy, information literacy, and teamwork and problem solving; and
- personal and social responsibility, including civic knowledge and engagement at local and global levels, intercultural knowledge and competence, ethical reasoning and action, and foundations and skills for lifelong learning.

General Education Requirements

All Cal State East Bay undergraduate students participate in the General Education (GE) Program, along with their major program, to develop and bolster a breadth of their knowledge and skills. Cal State East Bay has a vibrant and meaningful GE Program that includes both state-mandated and CSUEB-specific ("local") requirements.

By CSU policy, all baccalaureate students must complete a minimum of 48 semester units of GE distributed over five areas. Transfer students who have earned lower division GE credit from a California community college, another CSU, or the University of California prior to attending Cal State East Bay will have those lower division credits honored. However, transfer students still must complete 9 semester units of upper division GE at a CSU.

In addition to the state-mandated GE courses, there are a few Cal State East Bay breadth requirements:

- Second Composition lower division course
- Overlay courses in:
 - Diversity
 - Social Justice
 - Sustainability

Two additional baccalaureate requirements: *the University Writing Skills Requirement* and *American Institutions ("Code") Requirement* are described in the Requirements, Exams & Testing chapter. GE and major pathways should be planned carefully. Important GE policies to keep in mind are described below.

48 Units of General Education (Lower-division and Upper-division GE Courses)

The program requires a minimum of 48 semester units of GE, including a minimum of 9 semester units of upper-division GE, distributed over five areas (GE Areas A-E), as specified in the GE Area descriptions below. Transfer students must earn a minimum of 39 semester units in lower-division GE courses that meet the requirements of the CSU or IGETC transfer plan and complete a minimum of 9 semester units of upper-division GE at a CSU.

9 Units Upper-division GE

At least 9 of the 48 semester units must be from approved upper division (at Cal State East Bay, these are numbered 300 and above) GE courses taken within the CSU. Upper-division GE cannot be taken until earning a minimum of 60 semester units (junior standing) in all baccalaureate-level coursework and lower-division GE courses in Areas A1, A2, A3, and B4 have been passed with grades of C- (CR) or better.

Minimum Course Grades

Grades of C- (CR) or better are required in Communication in the English Language (GE Subareas A1 and A2), Critical Thinking (A3), and Quantitative Reasoning (B4).

Allowances for Double-counting in GE

Major courses and campus-wide required courses that are approved for GE credit will also fulfill (double count for) the GE requirement.

For Areas A, B, C, and D, no one course or test can be used to clear more than one GE Area requirement. One American Institutions (U.S. Code) class may be double-counted to meet a GE requirement: U.S. Code. Transfer students from institutions that allow both U.S. Code classes to double-count with GE will have those agreements honored. Students who take one U.S. Code class elsewhere and one at Cal State East Bay will only be allowed to double-count one of the courses with GE. Students who take a course that is approved for both GE and Overlay may count that course for both requirements. Students who take a course that is approved for Second Composition and one of GE Areas A3, B, C, or D may count that course for both requirements.

Lower-Division GE Requirements (39 Semester Units) and Learning Outcomes

Area A. Communication in the English Language and Critical Thinking (9 Semester Units)

Students should complete this area of the GE requirements (along with GE Subarea B4) during their freshman year and must complete this area before reaching junior status. Students must take one course (minimum 3 semester units) from each GE Subarea: A1, A2, and A3.

Students taking courses in fulfillment of GE Subareas A1 and A2 will develop knowledge and understanding of the form, content, context, and effectiveness of communication. Students will develop proficiency in oral and written communication in English, examining communication from the rhetorical perspective and practicing reasoning and advocacy, organization, and accuracy. Students will enhance their skills in the discovery, critical evaluation, and reporting of information, as well as reading, writing, and listening effectively.

A1. Oral Communication (3 semester units)

Subarea A1 courses emphasize communication theory and provide several speaking and listening experiences in multiple modes, e.g., small-group discussion, interpersonal communication, and persuasive discourse presented extemporaneously. Upon completion of the A1 requirement, students will be able to:

1. speak effectively when making oral presentations in English;
 2. explain the principles of effective oral communication, including form, content, context, and style;
 3. advocate for a cause or idea, presenting facts and arguments in an organized and accurate manner;
- and

4. critically evaluate oral presentations.

The A1 course must be passed with a C- (CR) or better to satisfy GE Subarea A1. Any approved A1 course with an In Progress Grade (i.e., I, RP, or RD) will not be counted in Subarea A1 until a passing final course grade is posted. As appropriate, American Sign Language may be substituted for oral communication.

Courses approved for Subarea A1 are listed here: [GE Area A1 Courses](#)

A2. Written Communication (3 semester units)

Subarea A2 courses emphasize the rhetorical principles that govern reading and writing. These principles are fundamental to logical thinking and clear expression. For reading, they presume open-mindedness combined with critical thinking and analytical skills. For writing, they presume an awareness of audience, context, and purpose. Upon completion of the A2 requirement, students will be able to:

1. write effectively in English;
2. explain the principles and rhetorical perspectives of effective writing, including its form, content, context, and style;
3. advocate for a cause or idea, presenting facts and arguments in an organized and accurate manner; and
4. practice the discovery, critical evaluation, and reporting of information.

The A2 course must be passed with a C- (CR) or better to satisfy GE Subarea A2. Any approved A2 course with an In Progress Grade (i.e., I, RP, or RD) will not be counted in Subarea A2 until a passing final course grade is posted.

Courses approved for Subarea A2 are listed here: [GE Area A2 Courses](#)

A3. Critical Thinking (3 semester units)

In Subarea A3 courses emphasize the development of clarity and rigor in reasoning and its presentation, and the ability to understand, represent, and evaluate the presentations of reasoning made by others. Upon completion of the A3 requirement, students will be able to:

1. understand logic and its relation to language, elementary inductive and deductive reasoning, and formal and informal fallacies;
2. demonstrate the ability to distinguish among different sorts of claims, such as statements of opinion, reasoned judgments, proofs, and articles of faith;
3. develop the ability to identify, analyze, evaluate, and present arguments, and construct arguments both to support and refute claims; and
4. develop the ability to reason inductively and deductively.

The A3 course must be passed with a C- (CR) or better to satisfy GE Subarea A3. Any approved A3 course with an In Progress Grade (i.e., I, RP, or RD) will not be counted in Subarea A3 until a passing final course grade is posted.

Courses approved for Subarea A3 are listed here: [GE Area A3 Courses](#)

Area B. Scientific Inquiry and Quantitative Reasoning (9 Semester Units)

Lower-division Subarea B courses emphasize the key principles and concepts in the natural sciences and mathematics or statistics and the important roles that scientific practice and inquiry play in advancing scientific knowledge and discovery.

Students must choose one course from each lower-division GE Subarea B: B1, B2, and B4. At least one of the B1 or B2 courses must have a laboratory component, prerequisite, or co-requisite to satisfy GE Subarea B3.

B1. Physical Science (3 semester units)

Upon completion of the B1 requirement, students will be able to:

1. demonstrate knowledge of scientific theories, concepts, and data about the physical sciences;
2. demonstrate an understanding of scientific practices, including the scientific method; and
3. describe the potential limits of scientific endeavors, including the accepted standards and ethics associated with scientific inquiry.

Courses approved for Subarea B1 are listed here: [GE Area B1 Courses](#)

B2. Life Sciences (3 semester units)

Upon completion of the B2 requirement, students will be able to:

1. demonstrate knowledge of scientific theories, concepts, and data about the life sciences;
2. demonstrate an understanding of scientific practices, including the scientific method; and
3. describe the potential limits of scientific endeavors, including the accepted standards and ethics associated with scientific inquiry.

Courses approved for Subarea B2 are listed here: [GE Area B2 Courses](#)

B3. Laboratory Activity

Subarea B3 courses emphasize active engagement, collaboration, and hands-on experiences that facilitate understanding of science concepts and the development of sound science practices and habits of mind. Upon completion of the B3 requirement, students will be able to:

1. apply their knowledge of scientific theories, concepts, and data about the physical and sciences through laboratory activities;
2. apply their understanding of scientific practices, including the scientific method in a laboratory setting; and
3. demonstrate accepted standards and ethics associated with scientific inquiry, while completing laboratory activities.

Laboratory activities that are not a component of a B1 or B2 course must have a prerequisite or co-requisite of a B1 or B2 course in the same discipline.

Courses approved for Subarea B3 are listed here: [GE Area B3 Courses](#)

B4. Mathematics/Quantitative Reasoning (3 semester units)

Area B4 courses provide practice in computational skills as well as engagement in more complex mathematical work. Upon completion of the B4 requirement, students will be able to:

1. explain and apply basic mathematical concepts; and
2. solve problems through quantitative reasoning.

The B4 course must be passed with a C- (CR) or better satisfy GE Subarea B4. Any approved B4 course with an In Progress Grade (i.e., I, RP, or RD) will not be counted in Subarea B4 until a passing final course grade is posted. Students must attempt to complete this area of the GE requirement (along with GE Subareas A1 - 3) during their freshman year.

Courses approved for Subarea B4 are listed here: [GE Area B4 Courses](#)

Area C. Arts and Humanities (9 Semester Units)

Students must complete a minimum of nine units in lower division Area C including a minimum of three units in each of the subareas of Arts (C1) and Humanities (C2). Area C (including upper-division GE Subarea C4) must be completed with courses from at least three different disciplines as represented by course prefix.

C1. Arts (3 semester units)

Subarea C1 courses integrate the evaluative and descriptive aspects of the history, theory, aesthetics, and criticism of different works, forms, styles, and schools of art. Upon completion of the C1 requirement, students will be able to:

1. demonstrate an appreciation of the arts using their intellect, imagination, sensibility, and sensitivity;
2. respond to aesthetic experiences in the arts and develop an understanding of the integrity of both emotional and intellectual responses; and
3. in their intellectual and subjective considerations, demonstrate an understanding of the relationship among the self, the creative arts, and culture.

Courses approved for Subarea C1 are listed here: [GE Area C1 Courses](#)

C2. Humanities (3 semester units)

Subarea C2 courses emphasize the ideas and theories behind the intellectual and cultural traditions of humans using historical, linguistic, literary, philosophical, and rhetorical approaches and methods. Upon completion of the C2 requirement, students will be able to:

1. show appreciation for the humanities using their intellect, imagination, sensibility, and sensitivity;
2. develop their affective and cognitive faculties through studying great works reflecting the rich diversity of human imagination and/or inquiry; and
3. engage in critical self-reflection relating themes in the humanities to the students' own lives.

Courses approved for Subarea C2 are listed here: [GE Area C2 Courses](#)

Additional Arts (C1) or Humanities (C2) course (3 semester units)

Students must take a third lower-division Area C course to complete the lower division Area C requirement.

Area D. Social Sciences (9 Semester Units)

Students must choose three lower-division courses (minimum 3 units each) approved for GE Subareas D1-3. Area D (including upper-division GE Subarea D4) must be completed with courses from at least three different disciplines as represented by course prefix.

D1-3. Lower-division Social Science Electives (9 semester units)

Upon completion of the lower-division Area D requirement, students will be able to:

1. specify how social, political, economic, and environmental systems and/or behavior are interwoven;
2. explain how humans individually and collectively relate to relevant sociocultural, political, economic, and/or environmental systems-how they produce, resist, and transform them;
3. discuss and debate issues from the course's disciplinary perspective in a variety of cultural, historical, contemporary, and/or potential future contexts; and
4. explore principles, methodologies, value systems, and ethics employed in social scientific inquiry.

Courses approved for Subareas D1-3 are listed here: [GE Area D1-3 Courses](#)

Area E. Lifelong Learning and Self-Development (3 Semester Units)

Area E courses may address topics such as human behavior, sexuality, nutrition, physical and mental health, stress management, physical literacy, information literacy, social relationships, relationships with the environment, implications of death and dying, and avenues for lifelong learning. Students who need additional support in their A2 or B4 courses may be required to take 2 semester units of General Studies Foundations of Success (GS 101A and GS 101B) courses taken during each term (1 unit per term) of the freshman year to partially satisfy their Area E and provide additional academic support. Foundations of Success courses focus on building networks and communities of support; developing self-agency and growth mindset; practicing strategies for college success; finding and using campus resources; engaging in community (campus and beyond); understanding major and GE requirements; and planning for sophomore year and beyond. Information literacy courses focus on the skills needed to find relevant resources; access, evaluate, and organize information; understand the ethical, social, and legal dimensions; and select and use appropriate technology. The Information Literacy courses are particularly useful when taken concurrently with Second Composition courses.

Upon the completion of the Area E requirement, students will be able to:

1. develop intellectual, practical, and/or physical skills and abilities that will serve them throughout their lives;
2. apply their learning to other pursuits within and outside of the classroom; and
3. demonstrate the capacity to make informed and ethical decisions.

Courses approved for Area E are listed here: GE Area E Courses

Upper Division GE Requirements (9 Semester Units) and Learning Outcomes

To be eligible to take any upper-division GE course (numbered 300 or above at Cal State East Bay), students must have completed a minimum of 60 semester units of baccalaureate-level coursework and lower-division GE courses in Subareas A1, A2, A3, and B4 have been passed with grades of C- (CR) or better. *(See the Errata Chapter for changes to this paragraph)*

B6. Upper-division Science Inquiry and Quantitative Reasoning (3 semester units)

Subarea B6 courses integrate and build upon the quantitative analysis/reasoning skills and science content knowledge attained through lower-division Area B. Upon completion of the B6 requirement, students will be able to:

1. demonstrate advanced and/or focused science or quantitative content knowledge in a specific scientific field, using appropriate vocabulary and referencing appropriate concepts (such as models, uncertainties, hypotheses, theories, and technologies);
2. apply advanced quantitative skills (such as statistics, algebraic solutions, interpretation of graphical data) to scientific problems and evaluate scientific claims;
3. demonstrate understanding of the nature of science and scientific inquiry and the experimental and empirical methodologies used in science to investigate a scientific question or issue; and
4. apply science content knowledge to contemporary scientific issues (e.g., global warming) and technologies (e.g., cloning), where appropriate.

Courses approved for Subarea B6 are listed here: GE Area B6 Courses

C4. Upper-division Arts or Humanities (3 semester units)

Subarea C4 courses integrate and build upon the skills and content knowledge attained through lower-division GE coursework, particularly in Subareas A1, A2, A3, C, and E. Subarea C4 courses require skills in advanced writing, critical thinking, information literacy, oral communication (or sign language), and collaboration with peers. Upon completion of the C4 requirement, students will be able to:

1. demonstrate an understanding of and ability to apply the principles, methodologies, value systems, and thought processes employed in the arts and humanities;
2. analyze cultural production as an expression of, or reflection upon, what it means to be human; and
3. demonstrate how the perspectives of the arts and humanities are used by informed, engaged, and reflective citizens to benefit local and global communities.

Courses approved for Subarea C4 are listed here: GE Area C4 Courses

D4. Upper-division Social Sciences (3 semester units)

Subarea D4 courses integrate and build upon the skills and content knowledge attained through lower-division GE coursework, particularly in Subareas A1, A2, A3, D, and E. Subarea D4 courses require skills in advanced writing, critical thinking, information literacy, oral communication (or sign language), and collaboration with peers. Upon completion of the D4 requirement, students will be able to:

1. analyze how power and social identity affect social outcomes for different cultural and economic groups using methods of social science inquiry and vocabulary appropriate to those methods;
2. demonstrate an understanding of and ability to apply accurately disciplinary concepts of the social or behavioral sciences; and
3. demonstrate an understanding of and ability to effectively plan or conduct research using an appropriate method of the social or behavioral sciences.

Courses approved for Subarea D4 are listed here: [GE Area D4 Courses](#)

GE Checklist

Cal State East Bay students are required to fulfill the 48-unit General Education (GE) pattern as described in the GE Checklist. Download the checklist here: [GE Checklist](#).

Although courses approved for GE credit at the time of publication are noted in this catalog, new courses may be added and some courses may lose their GE certification. Courses approved for GE and/or breadth credit during this year, but after publication will be so listed in the Errata of the catalog.

Students with Quarter System GE Catalog Rights

Students who have quarter system GE Catalog rights will notice that GE Area F and Subarea B5, as well as the "Cultural Groups and Women" Overlay requirement do not exist in this Catalog.

Students who have not fulfilled Subarea B5 may satisfy the requirement by taking an additional B1 or B2 course or by taking a course that is listed in this Catalog as equivalent to a quarter-based course that had approval for Subarea B5 in the 2017-8 Catalog, provided that the course is taken before Fall Semester, 2021.

Students who need to satisfy 4 quarter units of Area F can use the courses on this list: [Area F courses](#). *Note: 1 semester unit is equivalent to 1.5 quarter units. They may also take a course(s) that is equivalent to a course approved for Area F under quarters, but the student cannot count the course for both Area F and another area of GE.*

Students who have not fulfilled the Cultural Groups and Women Overlay under quarters may take any semester-based Diversity Overlay course to satisfy the quarter-based requirement.

Local Breadth Requirements

Beyond the CSU requirements, Cal State East Bay requires baccalaureate students to take a Second Composition course and courses in three Overlay areas. These are described below.

Second Composition

Students must complete the Second Composition requirement by the time they reach "junior" standing. Before taking the Second Composition course, students must pass a course satisfying GE Subarea A2 with a grade of "C-" or above or "CR." Second Composition courses may also receive GE credit. Transfer students who did not satisfy this requirement at their previous college must take Second Composition during their first semester at Cal State East Bay. Some California community colleges refer to this as the "A4" requirement. The student learning outcomes for all Second Composition courses are described below.

Upon the successful completion of the Second Composition course, students will be able to:

1. complete a variety reading and writing tasks that incorporate subject-matter knowledge;
2. adjust their writing for different audiences, showing awareness of expectations for academic writing in general and adhering to discipline-specific conventions when appropriate;
3. demonstrate critical thinking and logical reasoning, including strategies common in a discipline, in the development and organization of ideas in written texts;
4. take into account multiple perspectives and key disciplinary concepts when presenting their ideas in writing; and
5. revise their writing in response to feedback in order to improve development, clarity, coherence, and correctness.

Courses approved for Second Composition are listed here: [Second Composition Courses](#)

Overlay Requirements

An "Overlay" is a graduation requirement that is fulfilled by completing an approved course. This requirement "lays over" the GE and major programs, because an Overlay course may be lower division or upper division and may also satisfy a GE or major requirement. Thus, the student should not need to take additional courses to meet the Overlay requirements. Please consult with your academic advisor to plan your coursework for your Overlay requirements.

A minimum of 9 semester units of coursework is required in courses that are linked to three of the University's Institutional Learning Outcomes (see the Cal State East Bay at a Glance chapter): Diversity Overlay, Social Justice Overlay, and Sustainability Overlay. The student learning outcomes for the three Overlay requirements are below.

Diversity Overlay

After completion of a course designated as fulfilling the Diversity Overlay requirement, students will be able to:

1. describe the histories and/or experiences of one or more U. S. cultural groups and the resilience and agency of group members;
2. identify structures of oppression and the diverse efforts and strategies used by groups to combat the effects of oppressive structures;

3. analyze the intersection of the categories of race and gender as they affect cultural group members' lived realities and/or as they are embodied in personal and collective identities;
4. recognize the way that multiple differences (including, for example, gender, class, sexuality, religion, disability, immigration status, gender expression, color/phenotype, racial mixture, linguistic expression, and/or age) within cultural groups complicate individual and group identities. "Cultural group(s)" refers to historically oppressed groups in the United States, such as African Americans, Asian Americans, Pacific Islanders, Latinx, American Indians, Arab Americans, women, and GLBTQ (gays, lesbians, bisexuals, transgender, and queer identified people).

Students who satisfied the "Cultural Groups and Women's Requirement" prior to Fall Semester, 2018 are considered to have satisfied this requirement.

Courses approved for the Diversity Overlay are listed here: [Diversity Overlay Courses](#)

Social Justice Overlay

After completion of a course designated as fulfilling the Social Justice Overlay requirement, students will be able to:

1. use a disciplinary perspective to analyze issues of social justice and equity;
2. describe the challenges to achieving social justice; and
3. identify ways in which individuals and/or groups can contribute to social justice within local communities, nations, or the world.

Courses approved for Social Justice Overlay are listed here: [Social Justice Overlay](#)

Sustainability Overlay

After completion of a course designated as fulfilling the Sustainability Overlay requirement, students will be able to:

1. identify the environmental, social, and economic dimensions of sustainability, either in general or in relation to a specific problem;
2. analyze interactions between human activities and natural systems;
3. describe key threats to environmental sustainability; and
4. explain how individual and societal choices affect prospects for sustainability at the local, regional, and/or global levels.

Courses approved for Sustainability Overlay are listed here: [Sustainability Overlay Courses](#)

Online Degree Programs & Information

- State Authorization
- About Online Learning
- Online Classes
- Online Degree Programs

Online Degree Program State Authorization

State and federal laws require colleges and universities to be authorized to offer online degree programs in states other than their own. At this time, Cal State East Bay may not be authorized to offer online degree programs for students residing in certain states. For more information on *CSUEB Distance Education State Authorization Status* go to: http://www.csueastbay.edu/online/admissions-and-costs/state_authorization.html for further information.

About Online Learning at Cal State East Bay

California State University, East Bay offers a number of online learning options. These include:

Selected online classes for enrolled students in one of two differing formats:

- Online classes, in which 100% of the class communications and coursework are online, and exams are delivered either online via the Internet, on campus, or proctored at an off-site location.
- Hybrid classes, in which some classroom meetings are replaced by online activities.

Visit the link below for more specific information about online classes and degree programs.

<http://www.csueastbay.edu/online/degree-programs.html>

Online Classes Offered This Semester

Students can view current online and hybrid course offerings at *MyCSUEB*.

Note: Please be sure to check the individual class "notes" for other possible important information about the class. To see the class "notes":

- Click the green arrow for the class;
- Click the bright blue section number hyperlink [for example: 02-LEC(123)] and scroll down to "Notes".

Online Degree Programs

A BA/BS Degree Completion Program is for anyone who has completed their lower division general education breadth requirements. All major requirements will be taken completely online.

Online Bachelor's Degree Completion Programs		
Degree and Concentration Links	Department Link	College
Business Administration, B.S.: Finance Concentration (Available Online) Business Administration, B.S.: General Management Concentration (Available Online) Business Administration, B.S.: Information Technology Management Concentration (Available Online) Business Administration, B.S.: Operations and Supply Chain Management Concentration (Available Online)	Department of Accounting and Finance & Department of Management	College of Business and Economics
Ethnic Studies, B.A.: Comparative Ethnic Studies Concentration (Available Online) Ethnic Studies, B.A.: Genders and Sexualities in Communities of Color Concentration (Available Online)	Department of Ethnic Studies	College of Letters, Arts, and Social Sciences
Hospitality and Tourism, B.S.: Event Planning and Management Concentration (Available Online)	Department of Hospitality, Recreation and Tourism	College of Education and Allied Studies
Human Development, B.A.: Adult Development and Gerontology Concentration (Available Online)	Department of Human Development and Women's Studies	College of Letters, Arts, and Social Sciences

Human Development, B.A.:
Early Childhood Development
Concentration (Available
Online)

Human Development, B.A.:
Women's Development
Concentration (Available
Online)

Recreation, B.S.: Recreation Therapy Concentration (Available Online)	Department of Hospitality, Recreation and Tourism	College of Education and Allied Studies

Online Master's Degree Programs and Concentrations		
Degree and Concentration Links	Department Link	College
Educational Leadership, M.S. (Available Online)	Department of Teacher Education	College of Education and Allied Studies
Education, M.S.: Online Teaching and Learning Concentration (Online Only Program)		
Health Care Administration, M.S. (Available Online)	Department of Public Affairs and Administration	College of Letters, Arts, and Social Sciences
Hospitality, Recreation and Tourism, M.S. (Online Only Program)	Department of Hospitality, Recreation and Tourism	College of Education and Allied Studies

Concord Campus Programs & Services

- About the Concord Campus
- Orientation for Concord

The Concord Campus

The Concord Campus is a branch campus of Cal State East Bay located at 4700 Ygnacio Valley Road near Clayton, Walnut Creek, Pleasant Hill, Pittsburg, and Antioch. The campus is uniquely positioned to serve the educational needs of county residents.

The 386-acre campus includes over 300 acres of open space, community sports fields, and views of Mt. Diablo and the Sacramento Delta. In 2017, the Concord Campus celebrated 25 years of providing public higher education to students and professionals. Many residents benefit from Cal State East Bay's presence in the heart of Contra Costa County and enjoy the small class size and intimate educational experiences the Concord Campus provides.

Degree Programs

Functioning primarily as an upper-division and post baccalaureate campus in Contra Costa County, the Concord Campus offers quality educational programs taught by East Bay faculty. Academic degree and credential programs currently offered at the Concord Campus are:

Undergraduate Fields of Study

Note: See the Concord Campus website for the most current majors and programs available.

Undergraduate degree completion programs with at least upper division coursework that can be completed entirely at Concord include:

- Business
- Liberal Studies
- Nursing
- Psychology

Upper division courses for the following majors are also offered at the Concord Campus. Students may be required to take additional coursework online or at the Hayward Campus in order to complete their degree program:

- Criminal Justice
- Health Sciences
- Human Development
- Sociology

Graduate Fields of Study

- Masters in Educational Leadership

Application and/or registration through either the Hayward or Concord Campus qualifies a student to enroll in courses at both sites. Academic expectations and standards, as well as University policies, are the same at both locations.

- Masters in Early Childhood Education

Application and/or registration through either the Hayward or Concord Campus qualifies a student to enroll in courses at both sites. Academic expectations and standards, as well as University policies, are the same at both locations.

Credentials

- Multiple Subject Teaching Credential
- Single Subject Teaching Credential

Certificate Program

- Paralegal Program Certificate

Post Baccalaureate Program

- Pre-Professional Health Academic Program

Services and Facilities

The Concord Campus promotes student success through a variety of services. These include academic advising on General Education (GE) and graduation requirements, as well as administrative and instructional support services. Students are referred to their departments for major advising.

Instructional support services include advanced computer laboratories, modern smart classrooms, a branch of the University's Library, student collaboration room, on-site bookstore, outdoor fitness park, student lounge and a free shuttle service between the campus and the Concord BART station.

For assistance, or information on any of these services, call (925) 602-6700 or visit <http://www.csueastbay.edu/concord>

Click the icon for a map of the Concord Campus

Orientation for Concord, International, and Graduate Students

Concord, international, and graduate students may attend other orientations. Contact the following offices to receive information:

- Concord Students: Contact Concord Transfer Center at cctransfercenter@csueastbay.edu or call (925) 602-6399 to find out more about the Concord Campus Orientation.

- International Students: Contact the Center for International Education at cie@csueastbay.edu for available orientation information or visit this website: <http://www.csueastbay.edu/cie/news/orientation.html>
- Graduate Students: Contact the major department about orientation information that may be offered, as not all graduate programs offer orientation.

University Honors Program

University Honors Program

Office of Undergraduate Studies

Student Services and Administration Building, Suite 4500

Phone: (510) 885-3716

E-mail: uhp@csueastbay.edu

Program Director

Shirley Yap (Mathematics)

Arnab Mukherjea (Health Sciences), Interim for Fall

Program Description

The University Honors Program provides outstanding students the opportunity for academic challenge by completing specialized courses, seminars, and projects under the direction of faculty mentors. They are considered for periodic awards and scholarships. University Honors Program students also receive recognition on their official transcripts and diplomas, and enjoy special acknowledgement at both the Honors Convocation and commencement ceremonies.

Program Learning Outcomes

Students who complete the University Honors Program will be able to:

1. Demonstrate the ability to design, plan, and execute an original research or creative project that would meet professional standards in a specialized discipline or interdisciplinary field.
2. Effectively communicate the methods, techniques, and findings of their original research or creative project in a written, oral, or visual format.
3. Work collaboratively with persons from different fields of specialization to address complex challenges and everyday problems.
4. Demonstrate responsible leadership skills through participating in one or more significant organizational roles in Honors curricular or co-curricular projects or service-learning fieldwork.

Admission

Admission to the University Honors Program is open to students who have maintained at least a 3.6 GPA in their last 2 semesters of study at CSUEB or transfer students whose transferred course GPA is at least 3.6. In addition, all students considering applying to the honors program must intend to be enrolled in the University for at least two more years so that they will have sufficient time to complete the program requirements.

Program Course Requirements

Consult the University Honors Program Director for clarification and interpretation of course requirements.

To graduate from the program, every Honors student must satisfactorily complete:

- A minimum of two classes (each consisting of three or more course units) as Honors-designated courses. To earn the Honors designation for a particular course on their transcripts, students shall:
 - Design, plan, and execute an original research or creative project in consultation with the course instructor, who agrees to evaluate the honors project in addition to, and separate from, assignments and assessments for the course in which the student is enrolled. Honors-designated courses may be in the student's major or minor, as well as in General Education and elective courses.
 - Submit an instructor-approved project form for each course in which Honors projects will be completed to the University Honors Program Director for review and approval.
 - Earn a letter grade of "B" (3.0 earned grade point) or better (see: Grading and Academic Standards FAQ) in the course in which an Honors project is completed.
- GS 309 Honors Service and Leadership (3 units) in students' sophomore or junior years, with a letter grade of "B" (3.0 earned grade point) or better.
- GS 399 Honors Presentation (1 unit) in their senior year, in conjunction with a capstone course within students' degree program, with a letter grade of "B" (3.0 earned grade point) or better.

Additional Breadth and Eligibility Requirements

Students must:

1. Take Honors-designated courses with letter grades only. Credit/No Credit courses will not be accepted for Honors designation.
2. Make progress towards program completion by taking at least one Honors-designated course per academic year, if needed, with a letter grade of "B" (3.0 earned grade point) or better.
3. Maintain a cumulative GPA of 3.60.
4. Attend one or more special learning, professional development at CSUEB each semester in which they are enrolled in the University Honors Program. Events sponsored by the Honors Student Council will be especially encouraged.

Early Registration

Excluding freshmen, all students in good standing in the University Honors Program enjoy Early Registration for most classes.

Special Recognition

University Honors Program students will receive special recognition at the Honors Convocation and/or at commencement in the academic year they graduate. University Honors Program students will also receive recognition on their transcripts and their diplomas, as well as a certificate of recognition from the program.

Program Director

The director coordinates University Honors Program courses, as well as special events for University Honors Program students and faculty. The director tracks student progress, invites eligible students to join the program, and notifies students who are failing to meet the program requirements.

GS 309 - Honors Service and Leadership

Units: 3

Introduction to the practice and theory of civic leadership, with emphasis upon community engagement. Service learning hours required. Please note: effective spring 2019 this course prefix will change from GS to HON. *Discussion Units: 1; Activity Units: 2*

Prerequisites: Department consent.

Equivalent Quarter Course: GS 3099.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

GS 399 - Honors Seminar

Units: 1

Students in the University Honors Program produce and present a digital portfolio of their academic and service accomplishments, assessing their Honors work in the context of program learning outcomes and professional goals. *Please note: effective spring 2019 this course prefix will change from GS to HON.*

Prerequisites: Admission to Honors Program, Junior standing or higher, and department consent.

Equivalent Quarter Course: GS 3999.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

Course Descriptions

Use the filter below to look up specific course information **or** click on the *About Courses* link for more general information:

- **About Courses**

Note: Please see Errata page for corrections to BAN, CS, GEOL, GS, MKTG, SOC and SPPA courses' content.

Accounting

ACCT 210 - Introduction to Financial Accounting

Units: 3

Introduction to basic financial accounting concepts and procedures. Learn how to identify, record, and interpret the effects of economic events on financial statements for financing, investing, and operating decision-making.

Equivalent Quarter Course: ACCT 2251.

Possible Instructional Methods: *Entirely On-ground, Entirely On-line.*

Grading: A-F grading only.

ACCT 215 - Introduction to Managerial Accounting

Units: 3

Use of accounting information for managerial decision-making on planning and control. Topics include cost classifications, estimation, and analysis; cost-volume-profit and relevant cost analysis; job-order and activity-based costing; standard costs and variance analysis; profit planning; capital budgeting; performance evaluation.

Prerequisites: ACCT 210.

Equivalent Quarter Course: ACCT 2253.

Possible Instructional Methods: *Entirely On-ground, Entirely On-line.*

Grading: A-F grading only.

ACCT 302 - Cost Accounting

Units: 3

In-depth study of the reporting and analysis of cost information for managerial decision-making. Topics include job-order costing, activity-based costing, process costing, strategy and balanced scorecard, cost allocation, customer profitability and sales variance analysis, allocation of support department costs, transfer pricing.

Prerequisites: ACCT 215

Equivalent Quarter Course: ACCT 3230.

Possible Instructional Methods: *Entirely On-ground, Entirely On-line.*

Grading: A-F grading only.

ACCT 311 - Intermediate Financial Accounting I

Units: 3

First in the two-course intermediate financial accounting sequence. Topics include conceptual framework for financial reporting, financial statements preparation, revenue recognition, and accounting for cash, receivables, inventories, and operating tangible and intangible assets. Differences between US GAAP and IFRS are emphasized.

Prerequisites: ACCT 210 with grade C or better.

Equivalent Quarter Course: ACCT 3212 or ACCT 3212T

Possible Instructional Methods: *Entirely On-ground, Entirely On-line.*

Grading: A-F grading only.

ACCT 312 - Intermediate Financial Accounting II

Units: 3

Second in the two-course intermediate financial accounting sequence. Topics include investments, liabilities, leases, income taxes, pensions, stockholders' equity, earnings per share, and statement of cash flows. Differences between US GAAP and IFRS are emphasized.

Prerequisites: ACCT 311 with grade C or better.

Equivalent Quarter Course: ACCT 3213.

Possible Instructional Methods: *Entirely On-ground, Entirely On-line.*

Grading: A-F grading only.

ACCT 320 - Business Law for Accountants

Units: 3

Business law topics of the CPA exam including contract law, commercial law (UCC), compliance with government regulations, negotiable instruments, secured transactions, bankruptcy, agency, employment and labor law, antitrust law, federal securities laws, business entities, and property.

Equivalent Quarter Course: ACCT 4223.

Possible Instructional Methods: *Entirely On-ground, Entirely On-line.*

Grading: A-F grading only.

ACCT 321 - Auditing I

Units: 3

Introduction to the auditor's decision-making process in a financial statement audit as well as an

integrated audit of both financial statement and internal control over financial reporting. Topics include audit planning and engagement, internal control, sampling, audit evidences and reports.

Prerequisites: ACCT 312 with grade C or better.

Equivalent Quarter Course: ACCT 4250.

Possible Instructional Methods: *Entirely On-ground, Entirely On-line.*

Grading: A-F grading only.

ACCT 331 - Federal Taxation for Individuals

Units: 3

Taxation for individuals under the U.S. Federal Income Tax System. Reporting tax for incomes, exemptions, deductions, and capital gains and losses. Tax planning and strategies, and other related tax topics are discussed.

Prerequisites: ACCT 210 with grade C or better.

Equivalent Quarter Course: ACCT 3220.

Possible Instructional Methods: *Entirely On-ground, Entirely On-line.*

Grading: A-F grading only.

ACCT 335 - VITA - Individual Income Tax Return Preparation

Units: 3

Classroom training in Federal and California income tax return preparation using resources from the IRS VITA program. Students need to pass the IRS certification tests and help prepare Federal and California in-scope individual income tax returns for the community.

Strongly Recommended Preparation: ACCT 331.

Prerequisites: Department consent.

Equivalent Quarter Course: ACCT 3228.

Repeatability: May be repeated once for credit for a maximum of 6 units.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

ACCT 340 - Accounting Information Systems

Units: 3

Design and production of accounting information to meet organization needs. Topics include accounting and business cycles, internal control systems, document flowcharts, data flow diagrams, fundamental information security issues, accounting database, disaster recovery, and business continuity.

Prerequisites: ACCT 210 with grade C or better.

Equivalent Quarter Course: ACCT 3170.

Possible Instructional Methods: *Entirely On-ground, Entirely On-line.*

Grading: A-F grading only.

ACCT 342 - Accounting Ethics

Units: 3

Accountant's ethical responsibilities defined by professional guidance by the American Institute of CPA's (AICPA), the Securities and Exchange Commission (SEC), and Sarbanes-Oxley Act (SOX). Discussions of ethical issues using ethical reasoning techniques and financial statement fraud cases.

Prerequisites: ACCT 210 with grade C or better.

Equivalent Quarter Course: ACCT 4911.

Possible Instructional Methods: *Entirely On-ground, Entirely On-line.*

Grading: A-F grading only.

ACCT 370 - Accounting for Governmental and Not-for-Profit Entities

Units: 3

Introduction to distinctive characteristics of accounting and financial reporting for governmental and not-for-profit entities. Topics include modified accrual basis, fund-based accounting, budgetary accounting, government reporting model, and net assets in not-for-profit organizations.

Prerequisites: ACCT 312 with grade C or better.

Equivalent Quarter Course: ACCT 3280.

Possible Instructional Methods: *Entirely On-ground, Entirely On-line.*

Grading: A-F grading only.

ACCT 398 - Internship

Units: 1-3

Introduction to the internship experience; integration of the academic program with career aspirations; emphasis on internship readiness and preparation for professional success.

Prerequisites: Department consent and minimum 2.0 GPA.

Credit Restrictions: No units may be applied to any CBE major or minor.

Equivalent Quarter Course: ACCT 3898.

Repeatability: May be repeated with department consent for a maximum of 3 units.

Possible Instructional Methods: *Entirely On-ground.*

Grading: CR/NC grading only.

ACCT 411 - Advanced Financial Accounting

Units: 3

Advanced topics in financial accounting include accounting for partnerships, business investment and consolidation, and foreign currency translation.

Prerequisites: ACCT 312 with grade C or better.

Equivalent Quarter Course: ACCT 4211.

Possible Instructional Methods: *Entirely On-ground, Entirely On-line.*

Grading: A-F grading only.

ACCT 421 - Auditing II

Units: 3

In-depth study of U.S. and international professional auditing and ethics standards. Topics include US and international auditing and ethics standards of an Issuer and a Non-issuer, and US standards governing governmental entities, attestation and assurance, accounting and review services.

Prerequisites: ACCT 321 with grade C or better.

Equivalent Quarter Course: ACCT 4251.

Possible Instructional Methods: *Entirely On-ground, Entirely On-line.*

Grading: A-F grading only.

ACCT 422 - Internal Auditing

Units: 3

Roles of the internal auditor in: ensuring the reliability and integrity of information, compliance with operating and reporting requirements, internal control audit, operational audit and management audit. An in-depth study of the standards of the Institute of Internal Auditors (IIA).

Prerequisites: ACCT 311 with grade C or better.

Equivalent Quarter Course: ACCT 4253.

Possible Instructional Methods: *Entirely On-ground, Entirely On-line.*

Grading: A-F grading only.

ACCT 423 - Information Technology Audit

Units: 3

Using information technology (IT) to audit accounting information systems. Topics include understanding IT risks, applying internal control framework to design IT internal controls, audits of computerized accounting information systems, and application of generalized audit software.

Prerequisites: ACCT 321 and ACCT 340, both with grade C or better.

Equivalent Quarter Course: ACCT 4252.

Possible Instructional Methods: *Entirely On-ground, Entirely On-line.*

Grading: A-F grading only.

ACCT 424 - Forensic Accounting and Fraud Examination

Units: 3

Examines fraud schemes and related financial transactions along with approaches to detect and deter fraud and studies the legal and investigative aspects of fraud examination. This course will assist students in the preparation for certification for Fraud Examiner.

Prerequisites: ACCT 312 with grade C or better.

Equivalent Quarter Course: ACCT 4254.

Possible Instructional Methods: *Entirely On-ground, Entirely On-line.*

Grading: A-F grading only.

ACCT 432 - Federal Taxation for Corporations

Units: 3

Taxation of domestic corporations. Topics include tax rules for determining a corporation's taxable income and tax liability, reconciling GAAP financial statement net income to corporate taxable income, tax consequences and planning strategies for corporate distributions including dividends, redemptions, and liquidations.

Prerequisites: ACCT 312 and ACCT 331, both with grade C or better.

Equivalent Quarter Course: ACCT 4220.

Possible Instructional Methods: *Entirely On-ground, Entirely On-line.*

Grading: A-F grading only.

ACCT 433 - Federal Taxation for Partnerships

Units: 3

Income tax rules applying to partnerships. Topics include taxation of partnership earnings, transactions between partners and the partnership, a partner's basis in a partnership interest, distributions to the partners, ownership changes, liquidation and termination of partnership and tax planning techniques.

Prerequisites: ACCT 312 and ACCT 331, both with grade C or better.

Equivalent Quarter Course: ACCT 4221.

Possible Instructional Methods: *Entirely On-ground, Entirely On-line.*

Grading: A-F grading only.

ACCT 435 - VITA - Quality Review of Individual Income Tax Returns

Units: 3

Classroom training on quality review for Federal and California individual income tax returns. Students learn to be quality reviewers for the VITA program to review Federal and California in-scope individual income tax returns prepared for the community by VITA preparers.

Strongly Recommended Preparation: ACCT 335.

Prerequisites: Department Consent.

Equivalent Quarter Course: ACCT 4227.

Repeatability: May be repeated once for credit for a maximum of 6 units.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

ACCT 490 - Independent Study

Units: 1-4

Independent study under the supervision a department faculty member.

Prerequisites: Department consent and minimum 2.0 GPA.

Credit Restrictions: No more than 12 units of independent study may be applied in the major department and 8 units in other departments to a baccalaureate degree.

Equivalent Quarter Course: ACCT 4900.

Repeatability: May be repeated for credit, with department consent, for a total of 12 units.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

ACCT 497 - Issues in Accounting

Units: 3

Readings, discussion, and research on contemporary and/or significant issues in accounting.

Equivalent Quarter Course: ACCT 3999.

Repeatability: May be repeated for credit when content varies, for a maximum of 6 units.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

BUS 220 - Legal Environment of Business

Units: 3 ; G.E./G.R. Area: D1-3; Social Justice

Legal and institutional setting in which business operates; the nature, sources, functions, and processes of law and legal reasoning relating to the U.S. court system, court procedures, alternative dispute resolution, ethics, contracts, torts, basic criminal law and intellectual property.

Equivalent Quarter Course: ACCT 2701.

Possible Instructional Methods: *Entirely On-ground, Entirely On-line.*

Grading: A-F grading only.

G.E./G.R. Area Satisfied: *D1-3 - Lower Division Social Sciences, Overlay - Social Justice*

BUS 330 - Financial Management

Units: 3

Theory and practices that underlie the financial manager's decision-making process. Capital investment analysis, cost of capital, risk and return, and market valuation of the financial assets.

Prerequisites: All of: ACCT 210, ECON 200, ECON 205, MATH 180, STAT 110.

Equivalent Quarter Course: FIN 3300.

Possible Instructional Methods: *Entirely On-ground, Entirely On-line.*

Grading: A-F grading only.

Accounting: Graduate

ACCT 611 - Financial Reporting and IFRS I

Units: 3

First course in a two-course sequence on Financial Reporting. Topics include: U.S. GAAP and IFRS on the conceptual framework for financial reporting, financial statements, revenue recognition, cash, receivables, inventories, and operating tangible and intangible assets.

Prerequisites: ACCT 210 with grade B- or better.

Equivalent Quarter Course: ACCT 6612.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

ACCT 612 - Financial Reporting and IFRS II

Units: 3

Second course in a two-course sequence on Financial Reporting. Topics include U.S. GAAP and IFRS on current and non-current liabilities, investments, leases, income taxes, pensions, stockholders' equity, earning per share, accounting changes, and statement of cash flows.

Prerequisites: ACCT 210 with grade B- or better.

Equivalent Quarter Course: ACCT 6613.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

ACCT 613 - Advanced Topics in Accounting

Units: 3

Advanced topics include accounting for partnerships, business consolidations, foreign currency translation, state and local governments, and not-for-profit organizations.

Prerequisites: ACCT 612 with grade C or better.

Equivalent Quarter Course: ACCT 6620.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

ACCT 621 - Accountants' Ethics and Professional Responsibilities

Units: 3

Study of the ethical, legal, regulatory issues and social responsibilities facing the accounting profession. Topics include the elements of ethical reasoning, corporate governance, professional codes of conduct of the AICPA and other regulatory bodies, and their real-world applications.

Prerequisites: ACCT 210 with grade B- or better.

Equivalent Quarter Course: ACCT 6660.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

ACCT 622 - Auditing Theory and Practice I

Units: 3

Introduction to the auditing process of historical financial statements and the current professional auditing and ethics standards of PCAOB and AICPA. Topics include internal control, nature and scope of audit engagement, planning, evidence, procedures, and reports.

Prerequisites: ACCT 612 with grade C or better.

Equivalent Quarter Course: ACCT 6640.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

ACCT 623 - Auditing Theory and Practice II

Units: 3

Advanced study of U.S. and international professional auditing and ethics standards. Topics include audits of an Issuer, a Non-issuer, and governmental entities, attestation and assurance standards, and standards for performing accounting and review services.

Prerequisites: ACCT 622 with a grade C or better.

Equivalent Quarter Course: ACCT 6650.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

ACCT 631 - Corporate Tax

Units: 3

Corporate income taxation from formation to complete liquidation. Topics include business entity comparisons, check-the-box regulations, common law doctrines of federal taxation, accounting periods and methods, carryovers of corporate tax attributes, personal holding companies, and accumulated earnings tax.

Prerequisites: ACCT 612 with grade C or better.

Equivalent Quarter Course: ACCT 6202.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

ACCT 639 - Business Law and Regulation

Units: 3

Focuses on strategic, policy and risk management aspects of the legal rights and responsibilities of a

business. Utilizes case studies, group projects and presentations to develop practical approaches to deal pro-actively with key stakeholders in legal and regulatory compliance matters.

Prerequisites: ACCT 210 with grade B- or better.

Equivalent Quarter Course: ACCT 6670.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

ACCT 671 - Business Communications and Professional Development I

Units: 1.5

Building professional and leadership skills through authentic communication. Development of leadership skill set that enables an individual to motivate, inspire, and connect to an audience. Improve individual presentation style.

Prerequisites: M.S. Accounting major.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

ACCT 672 - Business Communications and Professional Development II

Units: 1.5

Building effective written communication skills for business.

Prerequisites: M.S. Accounting major.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

ACCT 681 - Financial Statement Analysis and Business Valuation

Units: 3

Examine a company's competitive strategies and its industry characteristics. Analyze the profitability and risk of a company. Prepare forecast for a company. Study the valuation of the company using dividend-based, cash-flow-based, earnings-based and market-based valuation models.

Prerequisites: ACCT 613 with grade C or better.

Equivalent Quarter Course: ACCT 6560.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

ACCT 690 - Independent Study

Units: 1-4

Independent study under the supervision of a member of the graduate faculty.

Prerequisites: Department consent and minimum 3.0 GPA.

Equivalent Quarter Course: ACCT 6900.

Repeatability: May be repeated for credit, with department consent, for a total of 12 units.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

ACCT 693 - Project

Units: 3

Capstone project on analyzing a real world company's financial statements and its valuation.

Prerequisites: ACCT 613 with grade C or better.

Equivalent Quarter Course: ACCT 6899.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

ACCT 697 - Issues in Accounting

Units: 3

Readings, discussion, and research on contemporary and/or significant issues in accounting.

Equivalent Quarter Course: ACCT 6999.

Repeatability: May be repeated for credit when content varies, for a maximum of 6 units.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

ACCT 698 - Internship

Units: 1-3

Formal advanced work opportunities integrating the academic program with their career aspirations. Integral advanced hands-on experience enhancing education and preparing for professional and personal success.

Prerequisites: Department consent and minimum 3.0 GPA.

Credit Restrictions: No units may be applied to any CBE graduate degree.

Equivalent Quarter Course: ACCT 6898.

Repeatability: May be repeated with department consent for a maximum of 3 units.

Possible Instructional Methods: *Entirely On-ground.*

Grading: CR/NC grading only.

BUS 604 - Financial Accounting

Units: 3

Learn to read, analyze and interpret financial statements using real company data to make informed business decisions. Topics include constructing, analyzing and interpreting financial statements, and

reporting and analyzing operating income, operating assets, debt and owner financing.

Prerequisites: Post-baccalaureate standing.

Equivalent Quarter Course: ACCT 6015.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

Anthropology

ANTH 100 - Introduction to Anthropology

Units: 3 ; G.E./G.R. Area: D1-3

The study of human biology and culture for non-majors: concepts of human evolution, prehistory, and culture; discussion of human biological variation and deconstruction of concept of race; structure and function in social organization; synthesis of biological, cultural, and social factors.

Equivalent Quarter Course: ANTH 1000.

Possible Instructional Methods: *Entirely On-ground, Entirely On-line, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F or CR/NC (student choice).

G.E./G.R. Area Satisfied: *D1-3 - Lower Division Social Sciences*

ANTH 110 - Introduction to Biological Anthropology

Units: 3 ; G.E./G.R. Area: B2

An introduction to human biology from an evolutionary perspective. Topics include philosophy of science, evolutionary theory, evolution of primates and humans, the human fossil record, behavioral studies of humans and other primates, and modern human variation.

Equivalent Quarter Course: ANTH 1100.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

G.E./G.R. Area Satisfied: *B2 - Lower Division Life Sciences*

ANTH 120 - Introduction to Archaeology

Units: 3 ; G.E./G.R. Area: B1

Introduction to prehistory. Familiarization with the techniques used in recovery and interpretation of archaeological materials. Examples of the processes of cultural reconstructions from sites in the old and new world.

Equivalent Quarter Course: ANTH 1200.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

G.E./G.R. Area Satisfied: *B1 - Lower Division Physical Science*

ANTH 130 - Introduction to Cultural Anthropology

Units: 3 ; G.E./G.R. Area: D1-3

Functional approaches to the structure and dynamics of culture and society around the world; comparative study of human behavior and value systems in varied ecological settings.

Equivalent Quarter Course: ANTH 1300.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

G.E./G.R. Area Satisfied: *D1-3 - Lower Division Social Sciences*

ANTH 140 - Introduction to Linguistic Anthropology

Units: 3 ; G.E./G.R. Area: D1-3

An anthropological exploration of the human communicative capacity, starting with the communicative modalities of language and the body and culminating in the study of contemporary language and media.

Equivalent Quarter Course: ANTH 2801.

Possible Instructional Methods: *Entirely On-line, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F or CR/NC (student choice).

G.E./G.R. Area Satisfied: *D1-3 - Lower Division Social Sciences*

ANTH 300 - Anthropology of Global Change

Units: 3 ; G.E./G.R. Area: D4

An introduction to applied anthropology. The relevance of anthropology to contemporary social issues and world problems including human rights, ethnic conflict, gender inequality, and inner-city poverty.

Prerequisites: Completion of GE areas A1, A2, A3 and B4.

Equivalent Quarter Course: ANTH 3000.

Possible Instructional Methods: *Entirely On-ground, Entirely On-line, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F or CR/NC (student choice).

G.E./G.R. Area Satisfied: *D4 - Upper Division Social Sciences*

ANTH 490 - Independent Study

Units: 1-4

Independent study under the supervision a department faculty member.

Prerequisites: Department consent and minimum 2.0 GPA.

Credit Restrictions: No more than 12 units of independent study may be applied in the major department and 8 units in other departments to a baccalaureate degree.

Equivalent Quarter Course: ANTH 4900.

Repeatability: May be repeated for credit, with department consent, for a total of 12 units.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

ANTH 497 - Issues in Anthropology

Units: 3

Readings, discussion, and research on contemporary and/or significant issues in anthropology.

Equivalent Quarter Course: ANTH 3999.

Repeatability: May be repeated for credit when content varies, for a maximum of 6 units.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

Anthropology: Applied Anthropology

ANTH 370 - Anthropology in Action

Units: 3

Application of anthropological theory and methods to selected contemporary problems, including public health issues and policy, education, families, community development. Service learning activity at a local community organization.

Equivalent Quarter Course: ANTH 3785.

Possible Instructional Methods: *Entirely On-line.*

Grading: A-F or CR/NC (student choice).

ANTH 371 - Business Anthropology

Units: 3 ; G.E./G.R. Area: D4

Study of culture, institutions, and globalization through a focus on the anthropology of doing business. Application of anthropological insights to commercial encounters, consumer research, and organizational behavior.

Prerequisites: Completion of GE areas A1, A2, A3 and B4.

Equivalent Quarter Course: ANTH 3765.

Possible Instructional Methods: *Entirely On-line.*

Grading: A-F or CR/NC (student choice).

G.E./G.R. Area Satisfied: *D4 - Upper Division Social Sciences*

ANTH 372 - Medical Anthropology

Units: 3 ; G.E./G.R. Area: D4; Diversity

The ecology of health, traditional practices, and medicine; public health and medical problems as affected by cultural differences; the effects of acculturation upon mental and physical health.

Prerequisites: Completion of GE areas A1, A2, A3 and B4.

Equivalent Quarter Course: ANTH 3720.

Possible Instructional Methods: *Entirely On-ground, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F or CR/NC (student choice).

G.E./G.R. Area Satisfied: D4 - Upper Division Social Sciences, Overlay - Diversity

ANTH 377 - Museum Studies Anthropology

Units: 3

Hands-on experience in museum management. Students learn the role of a curator in acquisition, identification, recording, repair, preservation and display of anthropological materials. Two external museum visits are required.

Prerequisites: One of: ANTH 110, ANTH 120, ANTH 130.

Equivalent Quarter Course: ANTH 3710.

Repeatability: Course may be repeated once for credit for a maximum of six 6 units.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

ANTH 398 - Internship

Units: 1-3

Introduction to the internship experience; integration of the academic program with career aspirations; emphasis on internship readiness and preparation for professional success.

Prerequisites: Department consent and minimum 2.0 GPA.

Credit Restrictions: No more than 3 units may be applied to the Anthropology major.

Equivalent Quarter Course: ANTH 3898.

Repeatability: May be repeated with department consent for a maximum of 6 units.

Possible Instructional Methods: *Entirely On-ground.*

Grading: CR/NC grading only.

Anthropology: Archaeology

ANTH 320 - Archaeological Science

Units: 3

Introduction to the application of the physical sciences in the solutions of problems in prehistory. Emphasis on dating methods and paleo-environmental reconstructions.

Strongly Recommended Preparation: ANTH 120.

Prerequisites: ANTH 120.

Equivalent Quarter Course: ANTH 3200.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

ANTH 321 - Archaeology of the Americas

Units: 3 ; G.E./G.R. Area: D4

The origins, growth and interaction of the North American, Mesoamerican and South American societies, with particular emphasis on the large pre-contact civilizations, Aztecs, Incas, and Mayas. Archaeological, historical and ethnographic evidence.

Prerequisites: Completion of GE areas A1, A2, A3 and B4.

Equivalent Quarter Course: ANTH 3250.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

G.E./G.R. Area Satisfied: *D4 - Upper Division Social Sciences*

Anthropology: Area Studies

ANTH 350 - Indians of California

Units: 3 ; G.E./G.R. Area: D4

Archaeology, ethno-history, and ethnography of the people living in and around what is now known as California before Old World-New World contact.

Prerequisites: Completion of GE areas A1, A2, A3 and B4.

Equivalent Quarter Course: ANTH 3505.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

G.E./G.R. Area Satisfied: *D4 - Upper Division Social Sciences*

ANTH 354 - China

Units: 3 ; G.E./G.R. Area: D4

Cultural patterns, social structures, and regional variations of China, Taiwan, and Hong Kong; their traditional, present, and future roles in the world.

Prerequisites: Completion of GE areas A1, A2, A3 and B4.

Equivalent Quarter Course: ANTH 3545.

Possible Instructional Methods: *Entirely On-line.*

Grading: A-F or CR/NC (student choice).

G.E./G.R. Area Satisfied: *D4 - Upper Division Social Sciences*

ANTH 355 - Japan

Units: 3

Cultural patterns, religion, social structure and ecological settings of Japan. Topics will include family and kinship, gender roles, work groups, socialization, and education.

Equivalent Quarter Course: ANTH 3550.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

Anthropology: Biological Anthropology

ANTH 310 - Evolutionary Biology of Humans

Units: 3 ; G.E./G.R. Area: B6

Evolutionary biology, with an emphasis on humans. History of evolutionary thought, pattern and macroevolution, fossils and deep time, molecular biology and genetics, behavioral ecology and evolutionary psychology.

Prerequisites: Completion of GE areas A1, A2, A3 and B4 ; and ANTH 110.

Equivalent Quarter Course: ANTH 3100.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

G.E./G.R. Area Satisfied: *B6 - Upper Division Science Inquiry and Quantitative Reasoning*

ANTH 311 - Human Fossil Record

Units: 3 ; G.E./G.R. Area: B6

Human evolutionary history: Paleontology, comparative anatomy, and molecular systematics. The empirical evidence for human evolution.

Prerequisites: Completion of GE areas A1, A2, A3 and B4 ; and ANTH 110.

Equivalent Quarter Course: ANTH 3101.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

G.E./G.R. Area Satisfied: *B6 - Upper Division Science Inquiry and Quantitative Reasoning*

ANTH 312 - Primate Behavioral Ecology

Units: 3 ; G.E./G.R. Area: D4

A survey course concerned with behavior of primates, including humans. Relationships between social structure, instinct, behavioral ecology, and the environment. The relevance of the study of evolution and non-human primate behavior to an understanding of human behavior will be emphasized.

Prerequisites: Completion of GE areas A1, A2, A3 and B4.

Equivalent Quarter Course: ANTH 3110.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

G.E./G.R. Area Satisfied: D4 - Upper Division Social Sciences

Anthropology: Methods

ANTH 410 - Bioarchaeology Laboratory

Units: 3

A laboratory course on the human skeleton that emphasizes identification of fragmentary material and context. Methods of identifying bone modification, pathology, and trauma are introduced.

Prerequisites: ANTH 110.

Equivalent Quarter Course: ANTH 4260.

Repeatability: Course may be repeated twice for a maximum of 9 units.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

ANTH 411 - Human Forensic Osteology

Units: 3

Identification and interpretation of human skeletal remains. Includes significant anatomy content designed to build skills in identifying bone fragments. Analysis of identity, trauma, pathology, and bone modification emphasized, especially as relevant to reconstructing events in life and immediately surrounding death.

Strongly Recommended Preparation: Concurrent enrollment in ANTH 410.

Prerequisites: One of: ANTH 110, BIOL 270, BIOL 271.

Equivalent Quarter Course: ANTH 4280.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

ANTH 420 - Archaeology Laboratory

Units: 3

General field and laboratory techniques for retrieval and analysis of data recovered from prehistoric and/or historic sites.

Prerequisites: ANTH 120.

Equivalent Quarter Course: ANTH 4240.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

ANTH 421 - Field Archaeology

Units: 3

Techniques of surface survey and scientific excavation; controlled data retrieval from a variety of archaeological field situations. Aspects emphasized will depend on available opportunities.

Prerequisites: ANTH 120 or ANTH 320.

Equivalent Quarter Course: ANTH 4250.

Repeatability: Course may be repeated twice for a maximum of 9 units.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

ANTH 430 - Field Course in Ethnography

Units: 3

Securing, recording, ordering, and analyzing of cultural data; problems of participant observation and reporting information from cultural consultants; methods of data collection.

Equivalent Quarter Course: ANTH 4310.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

Anthropology: Linguistic Anthropology

ANTH 340 - Language and Culture

Units: 3 ; G.E./G.R. Area: D4

Language as a social and cultural phenomenon. The structured nature of language, key approaches to the study of language and culture, and linguistic-anthropological research on language-related social issues.

Prerequisites: Completion of GE areas A1, A2, A3 and B4.

Equivalent Quarter Course: ANTH 3800.

Possible Instructional Methods: *Entirely On-line, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F or CR/NC (student choice).

G.E./G.R. Area Satisfied: *D4 - Upper Division Social Sciences*

ANTH 341 - Linguistic Diversity and Social Justice

Units: 3 ; G.E./G.R. Area: D4; Social Justice

An examination of language as a potential site of social conflict and social justice, particularly with respect to questions of "race" and ethnicity. Topics include multilingualism, regional and ethnically linked dialects, and language-based discrimination in various public and private contexts.

Prerequisites: Completion of GE areas A1, A2, A3 and B4.

Equivalent Quarter Course: ANTH 3801.

Possible Instructional Methods: *Entirely On-line, Hybrid (every section of this course may be taught both online*

and on-ground).

Grading: A-F or CR/NC (student choice).

G.E./G.R. Area Satisfied: D4 - Upper Division Social Sciences, Overlay - Social Justice

ANTH 342 - Language and Sexuality

Units: 3 ; G.E./G.R. Area: D4; Diversity

An anthropological exploration of the relations between language and various aspects of sexuality, with emphasis on the role of language in the construction of sexual identities in different parts of the world.

Prerequisites: Completion of GE areas A1, A2, A3 and B4.

Possible Instructional Methods: *Entirely On-line, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F or CR/NC (student choice).

G.E./G.R. Area Satisfied: D4 - Upper Division Social Sciences, Overlay - Diversity

Anthropology: Sociocultural Anthropology

ANTH 330 - Social Anthropology

Units: 3

Structural-functional approach to the comparative study of human institutions, with emphasis on changing kinship, family, and social structure in various regions of the world. Critical analysis of major ethnographic works and substantial writing required.

Equivalent Quarter Course: ANTH 3400.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

ANTH 331 - Folklore

Units: 3 ; G.E./G.R. Area: D4

Introduction to and survey of oral traditions, e.g., folktales, myths, legends, proverbs, riddles, etc. methods and theories of folklore analysis and the use of folklore in studies of diffusion, social functions, world view, and religion.

Prerequisites: Completion of GE areas A1, A2, A3 and B4.

Equivalent Quarter Course: ANTH 3410.

Possible Instructional Methods: *Entirely On-ground, Entirely On-line, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F or CR/NC (student choice).

G.E./G.R. Area Satisfied: D4 - Upper Division Social Sciences

ANTH 333 - Women in Cross-Cultural Perspective

Units: 3 ; G.E./G.R. Area: D4; Social Justice

Similarities and differences in women's experiences in various societies around the world. Questions concerning gender identity, sexuality, marriage, the family, work, power, and intersections of gender with age, class and other inequalities.

Prerequisites: Completion of GE areas A1, A2, A3 and B4.

Equivalent Quarter Course: ANTH 3750.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

G.E./G.R. Area Satisfied: *D4 - Upper Division Social Sciences, Overlay - Social Justice*

ANTH 334 - Human Sexuality: Anthropological Perspectives

Units: 3 ; G.E./G.R. Area: D4

A cross-cultural and evolutionary study of human sexuality expanding the constricted perspectives of Western cultures, including a review of sexual practices and attitudes, gender roles in sensuality, and sexual orientation in both Western and non-Western societies.

Prerequisites: Completion of GE areas A1, A2, A3 and B4.

Equivalent Quarter Course: ANTH 3745.

Possible Instructional Methods: *Entirely On-ground, Entirely On-line, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F or CR/NC (student choice).

G.E./G.R. Area Satisfied: *D4 - Upper Division Social Sciences*

ANTH 431 - Advanced Anthropological Theory

Units: 3

Seminar in history and philosophy of anthropological thought: its place among the sciences and the humanities, schools of thought and the respective contributions of eminent anthropologists.

Prerequisites: Senior Standing.

Equivalent Quarter Course: ANTH 4910.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

Art

ART 440 - Forum

Units: 1

Advanced practitioners at the intersections of art, science, and technology present and discuss their work in a dynamic and open format with students. Students are actively engaged in a conversation about current trends and paradigms in contemporary media.

Repeatability: May be repeated for credit for a maximum of 4 units.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

ART 490 - Independent Study

Units: 1-3

Independent study under direction of faculty.

Prerequisites: Department consent and minimum 2.0 GPA.

Equivalent Quarter Course: ART 4900.

Repeatability: May be repeated for credit for a maximum of 12 units.

Possible Instructional Methods: *Entirely On-ground, Entirely On-line, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F grading only.

ART 491 - BFA Critique

Units: 1

Students present and contextualize their own art and design work and describe, analyze, interpret, and evaluate the work of their peers in small, instructor-led, discussion groups to provide in-depth, constructive feedback for continuing art and design practice.

Prerequisites: Junior, senior or post-baccalaureate standing.

Repeatability: May be repeated for credit for a maximum of 6 units.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

ART 498 - Internship

Units: 1-6

Supervised work experience in which student completes academic assignments integrated with off-campus paid or volunteer activities.

Prerequisites: Department consent and minimum 2.0 GPA.

Equivalent Quarter Course: ART 3898.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

Art: History

ART 120 - Monuments of World Art

Units: 3 ; G.E./G.R. Area: C1

Selected monuments of art and visual culture from various world cultures since the ancient era.

Equivalent Quarter Course: ART 1010.

Possible Instructional Methods: *Entirely On-ground, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F or CR/NC (student choice).

G.E./G.R. Area Satisfied: *C1 - Lower Division Arts*

ART 124 - History of Animation

Units: 3 ; G.E./G.R. Area: C1

Survey of historical developments, styles, techniques, theory and criticism of animation as an art form.

Equivalent Quarter Course: ART 1081.

Possible Instructional Methods: *Entirely On-line, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F grading only.

G.E./G.R. Area Satisfied: *C1 - Lower Division Arts*

ART 127 - History of Play, Games, and Interactivity

Units: 3 ; G.E./G.R. Area: C1

Students examine, analyze and contextualize play, games, and interactivity over time and across media, with emphasis on building context for their own creative work and understanding how game structure, style, genre, and interactivity impacts playfulness and fun.

Equivalent Quarter Course: ART 1085.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

G.E./G.R. Area Satisfied: *C1 - Lower Division Arts*

ART 220 - Monuments of Western Art I

Units: 3 ; G.E./G.R. Area: C1

Selected monuments of Mediterranean and European art from prehistory through the Renaissance.

Working independently and in groups, students practice writing art histories, trying out multiple ways of contextualizing art in relation to changing structures of power.

Credit Restrictions: Not open for credit to students who have completed ART 3220, ART 3055, or ART 1014.

Equivalent Quarter Course: ART 1014.

Possible Instructional Methods: *Entirely On-ground, Entirely On-line, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F grading only.

G.E./G.R. Area Satisfied: *C1 - Lower Division Arts*

ART 221 - Monuments of Western Art II

Units: 3 ; G.E./G.R. Area: C1

Selected monuments of European and American art and visual culture since the Renaissance. Working independently and in groups, students practice writing art histories, trying out multiple ways of contextualizing art in relation to social and political change.

Strongly Recommended Preparation: ART 220.

Credit Restrictions: Not open for credit to students who have completed ART 3224 or ART 3225.

Equivalent Quarter Course: ART 3224.

Possible Instructional Methods: *Entirely On-ground, Entirely On-line, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F grading only.

G.E./G.R. Area Satisfied: *C1 - Lower Division Arts*

ART 225 - Art and Social Engagement

Units: 3 ; G.E./G.R. Area: C1; Social Justice

Students investigate and analyze the histories and forms of art that are socially engaged. Students explore issues of social justice, community building, and participation as they practice teamwork and experiment with creative solutions to a specific local problem.

Credit Restrictions: Not open to for credit to Art majors.

Possible Instructional Methods: *Entirely On-ground, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F grading only.

G.E./G.R. Area Satisfied: *C1 - Lower Division Arts, Overlay - Social Justice*

ART 226 - History of Graphic Design

Units: 3

Students identify, analyze, and contextualize works of graphic design history from the invention of writing through the digital era, with emphasis on building context for their own creative work and examining the cultural impacts of graphic design practice.

Strongly Recommended Preparation: ART 120.

Equivalent Quarter Course: ART 4060.

Possible Instructional Methods: *Entirely On-ground, Entirely On-line, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F grading only.

ART 229 - Writing About Art and Design

Units: 3 ; G.E./G.R. Area: Writing II

Students develop strategies of composition and revision of writing on topics in the visual arts and design. Students practice description, analysis, evaluation, summary, persuasive writing, and professional correspondence.

Strongly Recommended Preparation: ART 120.

Prerequisites: Completion of GE area A2.

Possible Instructional Methods: *Entirely On-ground, Entirely On-line, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F grading only.

G.E./G.R. Area Satisfied: *Writing II*

ART 320 - Comparative World Art I

Units: 3 ; G.E./G.R. Area: C4

Students research selected world art and cultures comparatively through team and independent projects. Students will practice close reading and evidence-based writing about visual and material culture objects and develop sensitivity for specific contexts of transcultural exchanges. Repeatable when topic varies.

Strongly Recommended Preparation: ART 120.

Prerequisites: Completion of GE areas A1, A2, A3 and B4.

Equivalent Quarter Course: ART 3010.

Repeatability: May be repeated once for credit for a maximum of 6 units.

Possible Instructional Methods: *Entirely On-ground, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F grading only.

G.E./G.R. Area Satisfied: *C4 - Upper Division Arts or Humanities*

ART 323 - Modern Media, Art, and Culture I

Units: 3

Technological and stylistic developments of media and art, from the 18th century rise of the European public sphere to the beginnings of globalization in the late 20th century. Evidence-based writing about various cultures during modernity.

Strongly Recommended Preparation: ART 120.

Equivalent Quarter Course: ART 3035.

Possible Instructional Methods: *Entirely On-ground, Entirely On-line, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F grading only.

ART 325 - Race and Representation in American Art

Units: 3 ; G.E./G.R. Area: C4; Diversity

The construction and representation of race across American art and visual culture from colonial encounter to contemporary movement politics, attending to how power functions through visual images to imbed ideas about identification in subcultural communities and dominant culture.

Prerequisites: Completion of GE areas A1, A2, A3 and B4.

Equivalent Quarter Course: ART 3040.

Possible Instructional Methods: *Entirely On-ground, Entirely On-line, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F grading only.

G.E./G.R. Area Satisfied: *C4 - Upper Division Arts or Humanities, Overlay - Diversity*

ART 326 - Contemporary Visual Studies I

Units: 3

Investigation of how art and visual culture since 1989 have engaged with politics, performativity, materiality, participation, and/or mediation.

Strongly Recommended Preparation: ART 120.

Equivalent Quarter Course: ART 4071.

Repeatability: May repeat once for credit for a maximum of 6 units when topic varies.

Possible Instructional Methods: *Entirely On-ground, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F grading only.

ART 327 - Cinema Art Studies

Units: 3 ; G.E./G.R. Area: C4

Examine, analyze and contextualize works of cinema art from the invention of cinema through the current era, with emphasis on building context for their own creative work and understanding how film structure, style and genre impacts message.

Prerequisites: Completion of GE areas A1, A2, A3 and B4.

Equivalent Quarter Course: ART 4005 (x-listed w/COMM 4005).

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

G.E./G.R. Area Satisfied: *C4 - Upper Division Arts or Humanities*

ART 420 - Comparative World Art II

Units: 3 ; G.E./G.R. Area: C4

Through close analysis of material and visual culture and its supporting texts, students research the dynamics of cultural exchange for one period, culture or theme. Gain familiarity with research methodologies, including archaeological, anthropological, and postcolonial.

Strongly Recommended Preparation: ART 320.

Prerequisites: Completion of GE areas A1, A2, A3 and B4.

Equivalent Quarter Course: ART 4020.

Repeatability: May be repeated once for credit for a maximum of 6 units.

Possible Instructional Methods: *Entirely On-ground, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F grading only.

G.E./G.R. Area Satisfied: C4 - Upper Division Arts or Humanities

ART 423 - Modern Media, Art and Culture II

Units: 3 ; G.E./G.R. Area: C4

Students produce research on one aspect of how modern media and art engaged with politics, identity, and everyday life, through close reading and evidence-based writing. They gain familiarity with research methods and Marxist and feminist methodologies. Repeatable when topic varies.

Strongly Recommended Preparation: ART 323.

Prerequisites: Completion of GE areas A1, A2, A3 and B4.

Equivalent Quarter Course: ART 3400.

Repeatability: May be repeated once for credit for a maximum of 6 units.

Possible Instructional Methods: *Entirely On-ground, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F grading only.

G.E./G.R. Area Satisfied: C4 - Upper Division Arts or Humanities

ART 426 - Contemporary Visual Studies II

Units: 3 ; G.E./G.R. Area: C4

Students engage in focused, thematic study of contemporary art and visual cultures, through close reading, evidence-based writing, and in-depth research. They gain familiarity with research methods and contemporary methodologies, including sociological, post-structuralist, and new materialist approaches. Repeatable when topic varies.

Strongly Recommended Preparation: ART 326.

Prerequisites: Completion of GE areas A1, A2, A3 and B4.

Equivalent Quarter Course: ART 4070.

Repeatability: May be repeated once for credit for a maximum of 6 units.

Possible Instructional Methods: *Entirely On-ground, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F grading only.

G.E./G.R. Area Satisfied: C4 - Upper Division Arts or Humanities

ART 493G - Art History and Visual Studies Senior Project

Units: 3

Students practice advanced research methods to develop and produce a sophisticated piece of art historical and/or theoretical writing. Students explore professional opportunities related to art history and visual studies and produce career materials.

Prerequisites: Department consent.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

Art: Studio

ART 100 - Fundamentals of Drawing

Units: 3 ; G.E./G.R. Area: C1

Introduction to principles, elements, and practices of drawing, employing a wide range of subject matter and drawing media. Focus on perceptually based drawing, observational skills, technical abilities, and creative responses to materials and subject matter.

Equivalent Quarter Course: ART 1113.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

G.E./G.R. Area Satisfied: *C1 - Lower Division Arts*

ART 101 - Photography I

Units: 3 ; G.E./G.R. Area: C1

Introduction to the processes, principles, and tools of photography. Topics include the development of technical and aesthetic skills, elements of design and composition, camera technology, materials and equipment, and contemporary trends in photography.

Equivalent Quarter Course: ART 2630.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

G.E./G.R. Area Satisfied: *C1 - Lower Division Arts*

ART 102 - 2D Processes

Units: 3 ; G.E./G.R. Area: C1

Introduction to two-dimensional art, design and composition, including basic principles and elements of line, shape, texture, value, color and spatial illusion in traditional and digital media. Students practice ideation and critical thinking processes used to design, analyze, and produce imagery.

Equivalent Quarter Course: ART 2810.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

G.E./G.R. Area Satisfied: *C1 - Lower Division Arts*

ART 103 - 3D Processes

Units: 3 ; G.E./G.R. Area: C1

Introduction to three-dimensional art, design and spatial composition, including the elements and

organizing principles of design applied to space and form in traditional and digital media. Students design, analyze, and produce objects and sculpture through studio projects and written assignments.

Strongly Recommended Preparation: ART 102.

Equivalent Quarter Course: ART 1116.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

G.E./G.R. Area Satisfied: *C1 - Lower Division Arts*

ART 104 - 4D Processes

Units: 3 ; G.E./G.R. Area: C1

Introduction to time based art and design using traditional and digital media. Students design, analyze, and produce time based artworks and experiences, through presentations, studio projects, problem solving, and written assignments

Equivalent Quarter Course: ART 1020.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

G.E./G.R. Area Satisfied: *C1 - Lower Division Arts*

ART 111 - Sculpture I

Units: 3 ; G.E./G.R. Area: C1

Introduction to three-dimensional sculptural principles, techniques, and concepts utilizing a wide range of materials and practices. Various sculpture methods are practiced with attention to creative self-expression and historical context.

Equivalent Quarter Course: ART 1116.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

G.E./G.R. Area Satisfied: *C1 - Lower Division Arts*

ART 115 - Ceramics I

Units: 3 ; G.E./G.R. Area: C1

Introduction to ceramics materials, concepts, and processes including basic design principles, creative development, hand-building, throwing, glaze techniques, firing and ceramic terminology. Course covers aesthetics and creative development of clay objects examining historical, contemporary, and personal modes of expression across cultures.

Strongly Recommended Preparation: ART 103.

Equivalent Quarter Course: ART 1112.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

G.E./G.R. Area Satisfied: C1 - Lower Division Arts

ART 152 - Web Design I: Foundations

Units: 3

Students learn terminology and skills of graphic surface and interface design. Course covers graphics, layout, file- and version-management, wire-framing, prototyping, images, visual fundamentals and principles of interaction design to create web based interfaces and web sites.

Prerequisites: ART 100 and ART 102.

Equivalent Quarter Course: ART 2830.

Possible Instructional Methods: Entirely On-ground.

Grading: A-F grading only.

ART 172 - Painting I

Units: 3 ; G.E./G.R. Area: C1

Basic principles of painting including: color interaction and mixing, painting from observation and invention, various techniques, and how composition relates to personal response, subject matter and content. Demonstrations and digital presentations accompany projects.

Equivalent Quarter Course: ART 1114.

Possible Instructional Methods: Entirely On-ground.

Grading: A-F grading only.

G.E./G.R. Area Satisfied: C1 - Lower Division Arts

ART 181 - Introduction to Transdisciplinary Art and Design

Units: 3 ; G.E./G.R. Area: C1

Theory and practice of contemporary transdisciplinary visual arts research to permit new pathways for learning between, across, and beyond traditional disciplines and majors. Explorations into how two or more disciplines can be used to creatively answer art and design challenges.

Possible Instructional Methods: Entirely On-ground.

Grading: A-F grading only.

G.E./G.R. Area Satisfied: C1 - Lower Division Arts

ART 211 - Sculpture II

Units: 3 ; G.E./G.R. Area: C1

Deep engagement with sculptural principles, techniques, and concepts. Students focus on in-depth projects in a chosen medium, developing their skills at three-dimensional art making.

Strongly Recommended Preparation: ART 100, ART 101, ART 102, ART 103.

Prerequisites: ART 111.

Equivalent Quarter Course: ART 3316.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

G.E./G.R. Area Satisfied: *C1 - Lower Division Arts*

ART 215 - Ceramics II

Units: 3 ; G.E./G.R. Area: C1

Developing expertise with core techniques and adding skills with new materials, concepts, and processes including complex hand-building, wheel throwing, a variety of glaze techniques, and firings. Exploration, analysis and comparison of clay works both personal and across cultures.

Strongly Recommended Preparation: ART 102, ART 103, ART 104.

Prerequisites: ART 115.

Equivalent Quarter Course: ART 3512.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

G.E./G.R. Area Satisfied: *C1 - Lower Division Arts*

ART 230 - Graphic Arts

Units: 3

Traditional graphic arts practices, analog and digital materials, and hand and computer based methods are used to explore creative output beyond computers while examining the relationship of historical graphic arts to current design processes, technology and equipment.

Prerequisites: ART 101 and ART 102.

Co-requisites: ART 226.

Equivalent Quarter Course: ART 2805.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

ART 240 - Photography II

Units: 3

Advanced camera and digital darkroom techniques, including preparing images for the web and large format printing. Photography as a visual language, photographic color theory, and the aesthetics of photographic images.

Prerequisites: ART 101.

Equivalent Quarter Course: ART 3600.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

ART 241 - 4D Project Development and Preproduction

Units: 3

Project development and pre-production processes for video, animation, and other time based media such as digital games. Topics covered include proposals (treatments, budgets, marketing/distribution, locations, and personnel), scriptwriting, storyboarding, copyright and legal issues.

Prerequisites: All of: ART 100, ART 101, ART 102, ART 103.

Co-requisites: ART 104.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

ART 242 - Audio Production for Video and Animation

Units: 3 ; G.E./G.R. Area: C1

The theory and practice of audio production for video, animation, and other applications. Students will learn the fundamentals of sound design and aesthetics, microphone use, and digital recording equipment. Hands on experience recording, editing, mixing and mastering audio.

Co-requisites: ART 104.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

G.E./G.R. Area Satisfied: *C1 - Lower Division Arts*

ART 243 - Video I

Units: 3

Production of introductory to intermediate level digital film and video with emphasis on storytelling and creative communication. Analysis and application of film aesthetics through filmmaking assignments.

Prerequisites: All of: ART 100, ART 101, ART 102, ART 103, ART 104.

Co-requisites: ART 241.

Equivalent Quarter Course: ART 3820.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

ART 244 - Animation I

Units: 3

Production of introductory to intermediate level computer-based animation with emphasis on drawn and stop-motion techniques used for storytelling and creative communication. Analyze and apply animation principles in assignments and projects using both digital and non-digital media.

Prerequisites: All of: ART 100, ART 101, ART 102, ART 103, ART 104.

Co-requisites: ART 241.

Equivalent Quarter Course: ART 3800.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

ART 245 - Motion Graphics I

Units: 3

Introductory to intermediate level computer-based motion graphics. Analysis and application of animation and design principles in assignments and projects.

Prerequisites: All of: ART 100, ART 101, ART 102, ART 103, ART 104.

Co-requisites: ART 241.

Equivalent Quarter Course: ART 3825.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

ART 246 - 3D Modeling and Animation I

Units: 3

Intermediate level 3D models used in 3D digital animation for storytelling and creative communication. Modeling techniques & animation principles using both digital and non-digital media.

Prerequisites: All of: ART 100, ART 101, ART 102, ART 103, ART 104.

Co-requisites: ART 241.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

ART 247 - Landscape Photography

Units: 3

Theory, special techniques and the aesthetics of landscape photography, Learn from the work of historical to contemporary landscape photographers, to produce high quality landscape photographs. Field trips will be required.

Prerequisites: ART 101.

Equivalent Quarter Course: ART 3654.

Repeatability: Course may be repeated once for credit for a maximum of 6 units.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

ART 251 - Interaction and Experience Design Foundations

Units: 3

Principles, practices and design of interactions between people, objects, and systems. Best practices for the application of interaction design principles and the tools and techniques to create and test meaningful

and effective user interfaces and user experiences.

Strongly Recommended Preparation: ART 103 and ART 104.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

ART 255 - Game Design I

Units: 3 ; G.E./G.R. Area: C1

Students explore, analyze and compare game designs across multiple genres such as sports, game shows, games of chance, board and video games. Students then design, develop and test their own original analog games.

Strongly Recommended Preparation: ART 251.

Equivalent Quarter Course: ART 2851.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

G.E./G.R. Area Satisfied: *C1 - Lower Division Arts*

ART 259 - Interaction Design Studio I: Tools for Designers

Units: 3

Introduction to the use of software and authoring tools to develop meaningful screen-based interactivity for use in web pages, applications, and visualizations. Students use digital tools to develop high fidelity interactive prototypes and experiences for the screen.

Strongly Recommended Preparation: ART 152 and ART 251.

Equivalent Quarter Course: ART 4200.

Repeatability: May be repeated once for credit for a maximum of 6 units.

Possible Instructional Methods: *Entirely On-ground, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F grading only.

ART 260 - Introduction to Illustration

Units: 3

An introduction to the field and practice of Illustration, historical and contemporary. Focus on the various areas of illustration practice such as editorial, narrative, character, etc.

Prerequisites: All of: ART 100, ART 101, ART 102, ART 120.

Equivalent Quarter Course: ART 3145.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

ART 270 - Drawing II

Units: 3

Basic drawing skills, using a wide range of drawing media towards a personal aesthetic. Discussions of the social and cultural contexts underlying historical and contemporary drawing. Descriptive, subjective and conceptual projects.

Prerequisites: ART 100.

Equivalent Quarter Course: ART 3141.

Repeatability: Course may be repeated once for credit for a maximum of 6 units.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

ART 272 - Painting II

Units: 3

Varied approaches to painting through class projects. Contemporary uses of the media, technical demonstrations and critiques. Focus on developing an open, personal process and body of work.

Strongly Recommended Preparation: Art 100.

Prerequisites: ART 172.

Equivalent Quarter Course: ART 3212.

Repeatability: Course may be repeated once for credit for a maximum of 6 units.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

ART 274 - Figure Drawing I

Units: 3

Drawing the human figure from observation, using different media and techniques descriptively and interpretively. Basic anatomy, proportions and composition. Highlight on figure drawing's relevance in traditional and contemporary art.

Prerequisites: ART 100.

Equivalent Quarter Course: ART 3142.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

ART 278 - Bookmaking I

Units: 3 ; G.E./G.R. Area: C1

Create, examine and analyze book art through experience with the basic materials, equipment, and processes of bookmaking, including various bindings and techniques for image content. Skill building exercises, viewing of book art, concept development, and complete book projects.

Equivalent Quarter Course: ART 1121.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

G.E./G.R. Area Satisfied: *C1 - Lower Division Arts*

ART 279 - Printmaking I

Units: 3 ; G.E./G.R. Area: C1

Create, examine and analyze graphic art through experience with the basic materials, equipment, and processes of printmaking, including relief (linocut and woodcut), intaglio (etching), monotype, and stencil.

Equivalent Quarter Course: ART 1115.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

G.E./G.R. Area Satisfied: *C1 - Lower Division Arts*

ART 310 - 3D Modeling and Fabrication

Units: 3

Design and fabrication of 3D objects and artworks, from creation with digital solid modeling software to realization through 3D Printing, CNC Mills and associated technologies. Digital sculpting and engineering approaches to developing models for artistic and design goals.

Prerequisites: ART 246.

Repeatability: Course may be repeated for credit for a maximum of 9 units.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

ART 311 - Sculpture III

Units: 3

Advanced three-dimensional art making with an emphasis on self-directed investigation and development of a personal style and coherent body of work.

Prerequisites: ART 211.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

ART 315 - Ceramics III

Units: 3

Advanced work in art and design with clay. Integrate new techniques while building mastery over the material. Develop a personal portfolio.

Prerequisites: ART 215.

Equivalent Quarter Course: ART 3513.

Repeatability: Course may be repeated once for credit for a maximum of 6 units.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

ART 330 - Typography I

Units: 3

History, theory and contemporary practices of typography in the practice of design. Topics cover typographic terminology, conventions, typesetting fundamentals, grid systems, type as visual/verbal expressive communication and development of unique alphabet letterforms.

Prerequisites: ART 226.

Co-requisites: ART 331.

Equivalent Quarter Course: ART 3815.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

ART 331 - Design Concepts and Narratives

Units: 3

Development of conceptual design solutions to communicate ideas, information and narrative in response to a creative brief. Ideas are visualized using design elements and principles and refined through design thinking, iteration and problem solving processes.

Prerequisites: ART 226.

Co-requisites: ART 330.

Equivalent Quarter Course: ART 3810.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

ART 332 - Design for Production

Units: 3

Industry standard publication and digital media practices, materials and finishes, production terminologies and print based assembly and publishing software for pre-press, production and printing technology artwork requirements for graphic design reproduction.

Prerequisites: ART 226.

Co-requisites: ART 335.

Equivalent Quarter Course: ART 3860.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

ART 335 - Design Strategy and Collaborations

Units: 3

Students apply graphic design principles and design thinking (ideation, research, prototyping) to problem solve more complex and comprehensive design projects. Emphasis is placed on conceptual thinking, formal experimentation and creative collaborations.

Prerequisites: ART 330 and ART 331.

Co-requisites: ART 332.

Equivalent Quarter Course: ART 3855.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

ART 336 - Information Design

Units: 3

Explore ways of making complex data, events and processes understandable to viewers through the creative use of animated visualizations, diagrams, maps, timeline, charts and interactive graphics. Considerations of information clarity, readability and editorial expression are covered.

Prerequisites: All of: ART 152, ART 330, ART 331.

Co-requisites: ART 430.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

ART 340A - Creative Photography I

Units: 3

Photography as fine art and the creative use of photography. Merging images and ideas, students will explore and produce expressive and creative fine art imagery.

Prerequisites: ART 240.

Equivalent Quarter Course: ART 4645.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

ART 340B - Creative Photography II

Units: 3

Creative use of photography as a fine art form. Merging images and fine art theory, students will produce a creative fine art portfolio and participate in an exhibition.

Prerequisites: ART 340A.

Equivalent Quarter Course: ART 4645.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

ART 340C - Creative Photography III

Units: 3

Students will work individually on their own fine art projects, developing their own artistic vision throughout the semester ending with a portfolio of new fine art images and participating in an exhibition.

Prerequisites: ART 340B.

Repeatability: Course may be repeated once for credit for a maximum of 6 units.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

ART 341 - Advanced Photography and Social Justice

Units: 3 ; G.E./G.R. Area: Social Justice

Photography since its invention has been used to address social injustice. In this class students will learn advanced photography, visual communication, documentary and fine art skills, which will be used in social justice projects. *Lecture Units: 2; Activity Units: 1*

Prerequisites: ART 101.

Repeatability: Course may be repeated once for credit for a maximum of 6 units.

Possible Instructional Methods: *Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F grading only.

G.E./G.R. Area Satisfied: *Overlay - Social Justice*

ART 343 - Video II

Units: 3

Production of intermediate to advanced video with emphasis on storytelling and creative communication. Analyze and apply cinematic aesthetic principles in assignments and projects.

Strongly Recommended Preparation: ART 327.

Prerequisites: ART 243.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

ART 344 - Animation II

Units: 3

Production of intermediate to advanced level computer-based animation with emphasis on drawn and stop-motion techniques used for storytelling and creative communication. Analyze and apply animation principles in assignments and projects using both digital and non-digital media.

Strongly Recommended Preparation: ART 327.

Prerequisites: ART 244.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

ART 345 - Motion Graphics II

Units: 3

Production of intermediate to advanced level motion graphics animations with emphasis on creative communication. Analyze and apply motion graphics aesthetic principles in assignments and projects.

Strongly Recommended Preparation: ART 327.

Prerequisites: ART 245.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

ART 346 - 3D Modeling and Animation II

Units: 3

Production of intermediate level 3D models of characters and scenes for use in 3D digital animation used for storytelling and creative communication. Analyze and apply camera, lighting, and modeling techniques with animation principles in assignments and projects.

Strongly Recommended Preparation: ART 323.

Prerequisites: ART 241 and ART 246.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

ART 348A - Studio Lighting and Product Photography

Units: 3

Studio strobes, basic lighting principles, and the use of digital cameras and view cameras in the creation of commercial-quality product photography for print and the web. Field trips may be required.

Prerequisites: Art 240.

Equivalent Quarter Course: ART 3670.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

ART 348B - Advanced Studio Lighting and Product Photography

Units: 3

Advanced training with studio strobes, lighting principles, and the use of digital cameras and view cameras in the creation of commercial-quality product photography for print and the web. Field trips may be required.

Prerequisites: ART 348A.

Equivalent Quarter Course: ART 3671.

Repeatability: Course may be repeated once for credit for a maximum of 6 units.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

ART 349A - Portrait Photography

Units: 3

Studio lighting, digital imaging and camera techniques for professional portraiture. Students using a DSLR camera will learn the fundamentals of both studio and natural light portraiture with a variety of lighting equipment and professional techniques.

Prerequisites: ART 240.

Equivalent Quarter Course: ART 3660.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

ART 349B - Advanced Portrait Photography

Units: 3

Studio lighting, digital imaging and camera techniques for professional portraiture. Students will learn a variety of advanced portrait technique in order to produce professional quality images.

Prerequisites: ART 349A.

Equivalent Quarter Course: ART 3661.

Repeatability: Course may be repeated once for credit for a maximum of 6 units.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

ART 351 - User Experience Theory and Design

Units: 3

Learn to design and validate meaningful experiences and understand the theories behind them. Generate design ideas and learn rapid prototyping for feedback from teammates, clients, and users. Course also covers principles of visual design, perception, and cognition that inform effective interaction design.

Prerequisites: ART 251 and ART 259.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

ART 352 - Web Design II: Screen Interactions

Units: 3

Intermediate level web Designers and Fine Artists explore advanced interactivity for the Web. Course covers audio, video, animation, dynamic data, user-centered design, HCI and accessibility. Students create and publish websites and web apps solo and in teams.

Prerequisites: ART 152 and ART 251.

Equivalent Quarter Course: ART 3870.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

ART 355 - Game Design II

Units: 3

Combining game design art, concepts, methods and authoring tools to create a variety of games. Students create art, use mechanics, build prototypes, design, and user test original games, individually and in teams using a range of authoring tools.

Prerequisites: ART 226 and ART 259.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

ART 356 - Interaction Design Studio II : Prototyping the Internet of Things

Units: 3

Intermediate level interaction Designers and Fine Artists apply UX and Ixd skills to objects and spaces and solve problems using prototyping screen-based interaction, touch displays, and embedded sensors. Covers basic information on project development, wire-framing, prototyping, user-testing, sensor technology and electronics.

Prerequisites: All of: ART 101, ART 104, ART 152, ART 251, ART 255, ART 259.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

ART 357 - Interaction Design Studio III : Interactive Immersive Experiences

Units: 3

Intermediate level interaction Designers and Fine Artists use a range of techniques, software and tools including sensors, computer-vision, physical computing and electronics to create immersive experiences on multiple screens, or in Virtual, Augmented- and Mixed-Reality, video-projection, touch-screen interactions.

Prerequisites: ART 226 or 255, and ART 356.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

ART 361 - Color and Concept

Units: 3

Exploration of the use of color focusing on physical, perceptual, historical and cultural aspects of color. Hands on assignments will apply color systems, illusionary color, emotional, graphic and cultural symbolism. Readings, art/design lectures and field trips augment the course.

Equivalent Quarter Course: ART 3810.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

ART 362 - Illustrating Dynamic Forms

Units: 3

Focusing on traditional tools, students will increase skills of rendering characters, creatures and figures in active poses. Clothing, drapery, lighting will be subjects as well through the use of models and photos. Tools include ink, graphite, colored pencil and watercolor.

Prerequisites: ART 260.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

ART 363 - Narrative Illustration

Units: 3

Surveys techniques in sequential imagery. Digital tools explore characters and narrative styles and practices such as children's books, comic books and graphic novels. Focus on digital and vector painting processes.

Prerequisites: ART 361.

Equivalent Quarter Course: ART 2146.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

ART 364 - Advanced Illustration

Units: 3

Creation of illustrations focusing on the development of an individual style through professionally modeled assignment briefs. Students will practice editing and revising as well as development of individual communication on specific topics including portraits and environmental matte painting.

Prerequisites: ART 361 and ART 362.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

ART 370 - Drawing III

Units: 3

Continued study using varied drawing media and approaches to address contemporary drawing issues. Increased emphasis on individual expression, increased skill analyzing and interpreting original artwork in verbal or written formats, deeper understanding of contemporary and historical art concepts.

Prerequisites: ART 270.

Equivalent Quarter Course: ART 4143.

Repeatability: Course may be repeated twice for credit for a maximum of 9 units.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

ART 378 - Bookmaking II

Units: 3

Students will create, examine and analyze book art through experience and research with the materials, equipment, and more advanced processes of bookmaking. Emphasizing self-directed investigation and development of concepts, content, and structures that lead to complete books.

Prerequisites: ART 278.

Equivalent Quarter Course: ART 3121.

Repeatability: Course may be repeated twice for credit for a maximum of 9 units.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

ART 379 - Printmaking II

Units: 3

Create, examine and analyze graphic art through experience and research with the materials, equipment, and more advanced processes of printmaking. Emphasis on self-directed investigation and development of concepts and content with chosen techniques that lead to complete print editions.

Prerequisites: ART 279.

Equivalent Quarter Course: ART 4857.

Repeatability: Course may be repeated twice for credit for a maximum of 9 units.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

ART 418 - Advanced 3D Practice

Units: 3

Create, document, examine and analyze spatial art and design through experience and research with the materials, equipment, and more advanced processes. Emphasis on self-directed investigation and development of concepts and content with chosen media that show mastery in complete 3D productions.

Prerequisites: Two courses from: ART 310, ART 311, ART 315, ART 346.

Repeatability: Course may be repeated twice for credit for a maximum of 9 units.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

ART 430 - Typography for Print and Interactive Publications

Units: 3

Emerging relationships between typography, publication design and technology. Content covers the expressive elements and forms of typography for print and online publications, user interactivity, page and screen architecture and the influence of audience, culture and history.

Prerequisites: All of: ART 152, ART 330, ART 331.

Co-requisites: ART 336.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

ART 448 - Advanced 4D Projects

Units: 3

Create, document, examine and analyze time-based art through experience and research with the materials, equipment, and more advanced processes. Emphasis on self-directed investigation and development of concepts and content with chosen media that show mastery in complete 4D productions.

Prerequisites: Two courses from: ART 343, ART 344, ART 345, ART 346.

Equivalent Quarter Course: ART 4220

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

ART 449 - Select Topics in Video Animation

Units: 3

Research, analyze, create and develop concepts, methods and content from an area of video/animation outside of the established courses. Topics may vary.

Prerequisites: ART 241.

Repeatability: Course may be repeated twice for credit for a maximum of 9 units.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

ART 452 - Web Design III: Design Evolution

Units: 3

Advanced level web Designers and Fine Artists build dynamic webapps, research and design for

emerging technologies, such as to the Web of Things and respond to forecasting challenges, theory and applications of human-computer interaction for ubiquitous computing of the future.

Prerequisites: ART 351 and ART 352.

Repeatability: Course may be repeated once for credit for a maximum of 6 units.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

ART 455 - Game Development Team Project

Units: 3

Teams design and plan a complex interactive and playable media. Students interactively create a complete game while exploring the many roles on a creative team such as animator, interaction, graphic, audio, and level designer.

Prerequisites: ART 355.

Equivalent Quarter Course: ART 3851.

Repeatability: Course may be repeated once for credit for a maximum of 6 units.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

ART 457 - Interaction Design Studio IV : Speculative Interaction Research Lab

Units: 3

Advanced level interaction Designers and Fine Artists use forecasting, critical making, and design research to explore emerging technology, Design trends and Fine Art practices, students develop experimental and speculative prototypes of interaction for ubiquitous computing of the future.

Prerequisites: ART 357.

Repeatability: Course may be repeated three times for credit for a maximum of 12 units.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

ART 472 - Painting III

Units: 3

Continued study in studio painting using varied media and stylistic approaches. Emphasis on developing individual expression and strong work habits to sustain continued growth. Develop fluency in verbal/written analysis of artwork showing an understanding of contemporary and historical art concepts.

Note: please see Errata chapter of this catalog for changes to this content.

Prerequisites: All of: ART 100, ART 172, ART 272.

Equivalent Quarter Course: ART 3213.

Repeatability: Course may be repeated twice for credit for a maximum of 9 units.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

ART 474 - Figure Drawing II

Units: 3

Advanced practice of drawing the figure, including further study of anatomy using skeletons and muscle charts, as well as contemporary approaches to figuration, color and non-traditional techniques and media.

Prerequisites: ART 274.

Repeatability: Course may be repeated once for credit for a maximum of 6 units.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

ART 481 - Transdisciplinary Art and Design Seminar

Units: 3

Contemporary topics in transdisciplinary art and design with an emphasis on how students can frame their projects in terms of larger cultural, political, and technological shifts by critically reflecting on their own creative processes and work.

Prerequisites: ART 181.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

ART 485 - Transdisciplinary Art Laboratory

Units: 3

Research and development laboratory featuring two to three unique projects developed by faculty, external partners, or visiting designers. Students work in small teams and complete one project per lab in a pre-assigned team.

Prerequisites: ART 181.

Repeatability: Course may be repeated twice for credit for a maximum of 9 units.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

ART 493A - Illustration Senior Project

Units: 3

Students produce a body of Illustration work reflecting mastery of creative, design, and printing skills and processes that meet professional standards. Students develop a professional portfolio and career documents, and prepare to transition to postgraduate life.

Prerequisites: B.F.A. major and senior standing.
Equivalent Quarter Course: ART 4230.
Possible Instructional Methods: *Entirely On-ground.*
Grading: A-F grading only.

ART 493B - Interaction and Game Design Senior Project

Units: 3

Students produce an interaction design project, complex website, or game reflecting mastery of creative, design, coding and development skills and processes that meet professional standards. Students develop a professional portfolio and career documents, and prepare to transition to postgraduate life.

Prerequisites: B.F.A. major, senior standing, ART 351 and ART 352.
Equivalent Quarter Course: ART 4220.
Possible Instructional Methods: *Entirely On-ground.*
Grading: A-F grading only.

ART 493C - Photography Senior Project

Units: 3

Students produce a body of photographic work reflecting mastery of creative, design, and printing skills and processes that meet professional standards. Students develop a professional portfolio and career documents, and prepare to transition to postgraduate life.

Prerequisites: ART 340C and ART 349A.
Equivalent Quarter Course: ART 4745.
Possible Instructional Methods: *Entirely On-ground.*
Grading: A-F grading only.

ART 493D - 3D Art & Design Senior Project

Units: 3

Students produce a capstone project reflecting mastery of their respective concentration. Students develop a professional portfolio and career documents, and prepare to transition to postgraduate life.

Prerequisites: B.F.A. major, senior standing and ART 418.
Equivalent Quarter Course: ART 4720 and ART 4730.
Possible Instructional Methods: *Entirely On-ground.*
Grading: A-F grading only.

ART 493E - Transdisciplinary Senior Project

Units: 3

Students produce an art/design project reflecting mastery of conceptual and cultural theories and practices of transdisciplinary and creative, design, and development skills and processes that meet professional

standards. Students transition to postgraduate life, developing a portfolio and career documents.

Prerequisites: ART 448.

Equivalent Quarter Course: ART 4220.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

ART 493F - Video Animation Senior Project

Units: 3

Students will create, refine, and document a capstone time-based art project which requires research and development of concepts, methods and content. The comprehensive project with chosen media will show mastery in 4D production. Students prepare for transition from undergraduate life.

Prerequisites: All of: ART 351, ART 352, B.F.A. major, senior standing.

Equivalent Quarter Course: ART 4220.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

ART 493H - Fine Art Practice Senior Project

Units: 3

Students produce a body of fine art work reflecting mastery of materials, processes, and creative production skills that meet professional standards. Students develop a professional portfolio and career documents, and prepare to transition to postgraduate life.

Prerequisites: B.A. Art major or B.F.A. major, and senior standing.

Equivalent Quarter Course: ART 4720 and ART 4730.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

ART 493I - Graphic Design Senior Project

Units: 3

Students will formulate conceptually rich, multi-faceted portfolio quality work that showcases their ability to problem solve, innovate, communicate and achieve professional standards of work in print and electronic media and transition to postgraduate practice.

Prerequisites: All of: ART 323, ART 326, ART 332.

Equivalent Quarter Course: ART 4230.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

ART 496 - Special Topics

Units: 3

Critical trends and topics examining a variety of specialized, timely, or cutting-edge areas in art and design practice. Offerings will vary from term to term, and are open to all Art majors.

Prerequisites: All of: ART 100, ART 101, ART 102, ART 103, ART 104; and, either ART 120 or ART 220.

Repeatability: Course may be repeated for credit for a maximum of 12 units.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

Biological Science

BIOL 100 - Biology in the Real World

Units: 4 ; G.E./G.R. Area: B2, B3

Key concepts in biology presented in thematic Units:, emphasizing connections to everyday life and addressing real-world issues. Builds foundational knowledge and skills in biology for students pursuing or interested in a science major or liberal studies major (STEM teaching pathway). *Lecture Units: 3; Lab Units: 1*

Credit Restrictions: Not open to students with credit for BIOL 101.

Equivalent Quarter Course: BIOL 1000.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

G.E./G.R. Area Satisfied: *B2 - Lower Division Life Sciences, B3 - Lower Division Laboratory Activity*

BIOL 101 - Introduction to Biology

Units: 3 ; G.E./G.R. Area: B2

Plants, animals, and microorganisms and the modern biological concepts that apply to their structure and function on cellular, organismal, population, and ecosystem levels. Special emphasis on humans and their relationships with other living things.

Strongly Recommended Preparation: Concurrent enrollment in BIOL 102.

Credit Restrictions: Not for biology major or minor credit; not open to students with credit for BIOL 100.

Equivalent Quarter Course: BIOL 1001.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

G.E./G.R. Area Satisfied: *B2 - Lower Division Life Sciences*

BIOL 102 - Introduction to Biology Lab

Units: 1 ; G.E./G.R. Area: B3

Laboratory exposure to biological phenomena including microscope activities of cells, osmosis, diffusion, human nutrition, human genetics, plant growth, classification of plants and animals, fertilization and

development, natural selection simulation, field ecology and ecosystems.

Co-requisites: BIOL 101.

Equivalent Quarter Course: BIOL 1002.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

G.E./G.R. Area Satisfied: *B3 - Lower Division Laboratory Activity*

BIOL 140A - Principles of Cell and Molecular Biology

Units: 5 ; G.E./G.R. Area: B2, B3

Introduction to molecular and cellular biology with emphasis on the integration of structure and function in the living cell (Prokaryotes and Eukaryotes) as a biological system, cellular aspects of inheritance and basic principles of evolution. *Lecture Units: 3; Lab Units: 1; Activity Units: 1*

Equivalent Quarter Course: BIOL 1401 and BIOL 1402 both completed with grade C- or better.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

G.E./G.R. Area Satisfied: *B2 - Lower Division Life Sciences, B3 - Lower Division Laboratory Activity*

BIOL 140B - Principles of Organismal Biology

Units: 5

Introduction to the study of the diversity of life with emphasis on the adaptation of organisms to different environments and their ecological interactions with emphasis on the comparative understanding of eukaryotic life. *Lecture Units: 3; Lab Units: 1; Activity Units: 1*

Prerequisites: BIOL 140A with grade C- or better.

Equivalent Quarter Course: BIOL 1402 and BIOL 1403 both completed with grade C- or better.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

BIOL 230 - Introduction to Clinical Microbiology

Units: 4 ; G.E./G.R. Area: B2, B3

Introduction to beneficial and harmful microorganisms that interact with humans. Basic laboratory practice in handling microorganisms, including techniques of identification and culture. Designed for health sciences and nursing majors. *Lecture Units: 3; Lab Units: 1*

Credit Restrictions: Not for BIOL B.S. or B.A. degree credit. Not open to students with credit for BIOL 330.

Equivalent Quarter Course: BIOL 2025.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

G.E./G.R. Area Satisfied: *B2 - Lower Division Life Sciences, B3 - Lower Division Laboratory Activity*

BIOL 270 - Human Anatomy & Physiology I

Units: 4 ; G.E./G.R. Area: B2, B3

An integrated approach to essential concepts of human physiology and anatomy. Analysis of tissues, and of the skeletal, muscular, nervous, cardiovascular and respiratory systems. *Lecture Units: 3; Lab Units: 1*

Strongly Recommended Preparation: High school biology and chemistry, or BIOL 101 and BIOL 102; CHEM 100.

Credit Restrictions: Not for BIOL B.S. or B.A. degree credit.

Equivalent Quarter Course: BIOL 2010 completed with grade C- or better.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

G.E./G.R. Area Satisfied: *B2 - Lower Division Life Sciences, B3 - Lower Division Laboratory Activity*

BIOL 271 - Human Anatomy & Physiology II

Units: 4

An integrated analysis of human physiology and anatomy of the integumentary, autonomic and central nervous, endocrine, urinary and reproductive systems and of the blood and special senses. Coverage of histology, metabolism, and thermoregulation. *Lecture Units: 3; Lab Units: 1*

Prerequisites: BIOL 270 with grade C- or better.

Credit Restrictions: Not for BIOL B.S. or B.A. degree credit.

Equivalent Quarter Course: BIOL 2020 completed with grade C- or better.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

BIOL 301 - Biology Connections

Units: 3

Connections between biology and other sciences with real-world applications. Focuses on the Next Gen Science Standards to prepare pre- and in-service teachers for the CSET General Science Subtest II (life science section) to obtain a Foundational Science Credential.

Prerequisites: BIOL 100 or BIOL 101.

Credit Restrictions: Not for biology major or minor credit.

Equivalent Quarter Course: BIOL 3011.

Possible Instructional Methods: *Entirely On-line.*

Grading: A-F or CR/NC (student choice).

BIOL 302 - Biology Connections Laboratory

Units: 1

Laboratory providing connections between biology and other sciences with real-world applications. Focuses on the Next Gen Science Standards to prepare pre- and in-service teachers for the CSET General

Science Subtest II (life science section) to obtain a Foundational Science Credential.

Strongly Recommended Preparation: BIOL 301 (concurrent or completion).

Prerequisites: BIOL 100 or BIOL 101.

Credit Restrictions: Not for Biology major or minor credit.

Equivalent Quarter Course: BIOL 3012.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

BIOL 310 - Genetic Analysis I

Units: 4

A comprehensive analysis of gene structure, function, and inheritance incorporating classical and molecular-based approaches. Emphasis on the experimental evidence that has led to our current understanding of the nature of the gene, drawing on examples from bacteria to humans. *Lecture Units: 3; Activity Units: 1*

Prerequisites: BIOL 140A.

Equivalent Quarter Course: BIOL 3121.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

BIOL 315 - Marine Biology

Units: 4

The general biology of marine organisms with emphasis on the ecology of local marine communities, including field methods. Exploration of diversity of marine life and how the sea affects humanity. *Lecture Units: 2; Lab Units: 2*

Prerequisites: BIOL 140B.

Equivalent Quarter Course: BIOL 3215.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

BIOL 320 - Evolutionary Biology

Units: 3

A survey of the primary mechanisms underlying the evolution of natural populations. Topics may also include: principle methods of evolutionary analysis, history of life on Earth and a discussion of Evolution as it applies to the welfare of modern humans.

Prerequisites: BIOL 310.

Equivalent Quarter Course: BIOL 3130.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

BIOL 330 - General Microbiology

Units: 5

Biology of major groups of microorganisms, including bacteria, fungi, protozoans, and viruses with emphasis on the fundamentals of microbial reproduction, growth and control. *Lecture Units: 3; Lab Units: 2*

Prerequisites: BIOL 140B.

Co-requisites: CHEM 112.

Equivalent Quarter Course: BIOL 3405.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

BIOL 333 - Humans and Sex

Units: 3 ; G.E./G.R. Area: B6; Diversity

The genetic, hormonal, and behavioral basis of sexuality in humans from conception to adulthood; developmental and behavioral variation; enhancement and suppression of fertility; genetic screening.

Prerequisites: Completion of GE areas A1, A2, A3 and B4.

Credit Restrictions: Not for Biology major credit.

Equivalent Quarter Course: BIOL 3065.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

G.E./G.R. Area Satisfied: *B6- Upper Division Science Inquiry and Quantitative Reasoning, Overlay - Diversity*

BIOL 334 - Humans and the Living Planet

Units: 3 ; G.E./G.R. Area: B6; Sustainability

An overview of biological principles through the lens of human impacts on the biosphere, with a focus on issues of emerging concern, such as climate change, genetically modified organisms, and loss of biodiversity.

Prerequisites: Completion of GE areas A1, A2, A3 and B4.

Credit Restrictions: Not for Biology major credit.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

G.E./G.R. Area Satisfied: *B6- Upper Division Science Inquiry and Quantitative Reasoning, Overlay - Sustainability*

BIOL 335 - Humans: Health and Disease

Units: 3 ; G.E./G.R. Area: B6; Social Justice

An introduction to basic principles of human biology, including genetics and physiology, as a way of understanding human health and the diseases that can affect it.

Prerequisites: Completion of GE areas A1, A2, A3 and B4.

Credit Restrictions: Not for Biology major credit.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

G.E./G.R. Area Satisfied: *B6- Upper Division Science Inquiry and Quantitative Reasoning, Overlay - Social Justice*

BIOL 350 - Ecology

Units: 4

An examination of the factors influencing the relationships between organisms and the living and non-living aspects of their environment. Issues explored include species interactions, population dynamics, physiological adaptations, population growth, community structure, energy flow, nutrient cycling, and biodiversity loss. *Lecture Units: 3; Lab Units: 1*

Prerequisites: BIOL 140B, MATH 115, STAT 303.

Equivalent Quarter Course: BIOL 3110.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

BIOL 352 - Biogeography

Units: 4

Theory, practice and applications of analyzing large-scale distributions of organisms, the evolution and ecology of biomes, their biota, dispersal, change in range, phylogenetic systematics and habitat islands. Illustrated lectures and individual field observations.

Prerequisites: BIOL 350.

Equivalent Quarter Course: BIOL 4130 or GEOG 4130.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

BIOL 356 - Freshwater Environments

Units: 4

Principles, practices, and applications of analyzing freshwater physical and biological environments with their major communities of plants and animals, including comparisons of diverse habitats from freshwater wetlands through rivers and lakes. Illustrated lectures and individual field observations.

Prerequisites: BIOL 350.

Equivalent Quarter Course: BIOL 3216.

Repeatability: Course may be repeated for credit for a maximum of 8 units when course content varies.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

BIOL 368 - Fungi of California

Units: 3

A survey of the Fungi of California, exploring the biology and systematics of macroscopic fungi belonging to phyla Basidiomycota and Ascomycota. Particular attention will be given to the ecology, physiology, taxonomy, diversity and evolution of these organisms. *Lecture Units: 2; Lab Units: 1*

Prerequisites: BIOL 140B.

Equivalent Quarter Course: BIOL 3510.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

BIOL 370 - Animal Physiology

Units: 4

Core principles/concepts in animal physiology with emphasis on the regulation and integration of vertebrate systems, from the molecular/cellular level to the whole organism. Gateway course for all upper division physiology core courses and electives. *Lecture Units: 3; Lab Units: 1*

Strongly Recommended Preparation: STAT 303.

Prerequisites: BIOL 140B with grade C- or better and CHEM 112.

Equivalent Quarter Course: BIOL 3151.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

BIOL 372 - Microscopic Methods: Quantitative Analysis of Structure & Function

Units: 3

In-depth analysis of cell and tissue structure and function using advanced microscopy techniques including confocal. Students will learn optical theory, labeling techniques, sample preparation methods, digital imaging, video analysis and quantification. *Lecture Units: 1; Lab Units: 2*

Prerequisites: BIOL 140A.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice)

BIOL 398 - Internship

Units: 1-4

Supervised work experience in which student completes academic assignments integrated with off-campus paid or volunteer activities.

Prerequisites: Department consent and minimum 2.0 GPA.

Credit Restrictions: No more than a total of four (4) units of BIOL 398, 490, 698, or 690 or a combination thereof, may be applied to Biology major credit.

Equivalent Quarter Course: BIOL 3898.

Repeatability: May be repeated for credit, for a maximum of 8 units.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

BIOL 410 - Genetic Analysis II

Units: 3

A continuation of BIOL 310. Modern molecular and genetic techniques used to study the development of genetic model organisms (i.e. yeast, worms and flies). Topics include cell-cell communication, asymmetric cell division and stem cell biology among others.

Prerequisites: BIOL 310.

Equivalent Quarter Course: BIOL 3122.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

BIOL 415 - PCR, Sequencing and Fragment Analysis

Units: 3

Laboratory course covering the theory and applications of PCR, DNA sequencing and Fragment Analysis. Topics include DNA sequencing and sequence analysis, genomic PCR, quantitative PCR, RT-PCR, DNA fingerprinting. Individual project. *Lecture Units: 1; Lab Units: 2*

Prerequisites: BIOL 310.

Equivalent Quarter Course: BIOL 4485.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

BIOL 420 - Cell and Molecular Biology Undergraduate Seminar

Units: 2

A seminar course at the undergraduate level emphasizing the reading, interpretation, discussion and analysis of primary literature from the fields of Cell and Molecular Biology.

Prerequisites: BIOL 140B, BIOL 310.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

BIOL 424 - Bioinformatics

Units: 3

Introduction to Molecular Bioinformatics. This course will introduce computational analysis of DNA sequences from genes to genomes, gene expression, phylogenetics, protein structure and function. *Lecture Units: 1; Lab Units: 2*

Prerequisites: BIOL 310.

Equivalent Quarter Course: BIOL 4490.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

BIOL 425 - Techniques in Mammalian Cell Culture

Units: 3

Techniques of in vitro culturing of primary and established cell lines of multi-cellular origin. Topics include nutrition, growth, cloning, cell fusion, transformation, preservation, karyotyping, autoradiography, metabolic labeling, quality control applications. *Lecture Units: 1; Lab Units: 2*

Prerequisites: BIOL 310 and BIOL 330.

Equivalent Quarter Course: BIOL 4450.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

BIOL 426 - Advanced Molecular and Cell Biology

Units: 3

In-depth look at molecular aspects of cellular processes. Emphasis on experimental evidence of molecular mechanisms responsible for implementation and regulation of gene expression, protein synthesis, membrane transport, intracellular transport, cell signaling, and cell division.

Prerequisites: BIOL 310.

Equivalent Quarter Course: BIOL 4455.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

BIOL 427 - Molecular and Cell Biology Lab

Units: 3

Techniques of contemporary molecular and cell biology. Laboratory mimics, in practical fashion, the usual course a researcher takes in examining an experimental question. Includes: polymerase chain reaction, recombinant DNA procedures, flow cytometry, protein characterization and analysis and cell culture techniques. *Lecture Units: 1; Lab Units: 2*

Prerequisites: BIOL 310.

Co-requisites: BIOL 426.

Equivalent Quarter Course: BIOL 4456.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

BIOL 428 - Genomics

Units: 3

An integrated presentation of genome structure and function in prokaryotes and eukaryotes, with emphasis on genome evolution. Introduction to tools and databases available, as well as current techniques in genome sequencing, characterization, and analysis. *Lecture Units: 2; Lab Units: 1*

Prerequisites: BIOL 424.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

BIOL 430 - Microbial Physiology and Metabolism

Units: 3

Microbial function and biology required to fully understand microbial growth relevant to medical and economic importance, including the exploitation of microbial processes for biotechnological advancement.

Prerequisites: BIOL 330, and CHEM 340 or CHEM 441.

Equivalent Quarter Course: BIOL 4405.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

BIOL 431 - Medical Microbiology

Units: 5

Microbial bacterial pathogens, including routes of transmission, pathogenesis, host immune response, and methods of control and prevention including antibiotics, vaccines, aseptic technique, and public health measures. Identification of common pathogenic bacteria using standard clinical laboratory procedures and assays. *Lecture Units: 3; Lab Units: 2*

Prerequisites: BIOL 330.

Equivalent Quarter Course: BIOL 4413.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

BIOL 432 - Microbe-Host Interactions

Units: 3

Microorganisms in ecological and environmental systems, including aspects of microbial diversity in terrestrial, extreme, and marine and freshwater environments; microbial contributions of global biogeochemical cycles; and the use of microorganisms to solve modern-day issues.

Prerequisites: BIOL 330.

Equivalent Quarter Course: BIOL 4142.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

BIOL 433 - Microbial Ecology

Units: 3

Microorganisms in ecological and environmental systems, including aspects of microbial diversity in terrestrial, extreme, and marine and freshwater environments; microbial contributions of global biogeochemical cycles; and the use of microorganisms to address modern-day issues.

Prerequisites: BIOL 330.

Equivalent Quarter Course: BIOL 4340.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

BIOL 434 - Molecular Microbiology

Units: 3

Molecular principles underlying basic microbial processes, such as regulation of growth, molecular determination of virulence, and phylogenetic relationships between microorganisms.

Prerequisites: BIOL 330.

Equivalent Quarter Course: BIOL 4143.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

BIOL 440 - Molecular Virology

Units: 3

Survey of DNA and RNA viruses of bacteria, plants and animals. Focus on the molecular mechanisms of infection and replication, Braggs Law and viral structure with emphasis viruses of biomedical importance such as HIV and HCV, prions and viroids.

Strongly Recommended Preparation: BIOL 445.

Prerequisites: BIOL 310.

Equivalent Quarter Course: BIOL 4441.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

BIOL 441 - Parasitology

Units: 3

Introduction to the general biology of parasites and the host immune responses to and methods of evasion by parasites. Ecology and evolutionary biology of parasitic infections and modern methods for their control as well as their impact on human civilizations.

Prerequisites: BIOL 310.

Equivalent Quarter Course: BIOL 3441.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

BIOL 442 - Epidemiology

Units: 3

Study of the patterns of health and disease conditions in populations. Identification of risk factors for disease transmission and targets for preventive healthcare. Introduction to the epidemiological study areas such as outbreak investigation, disease surveillance, biomonitoring, and clinical trials evaluation.

Prerequisites: BIOL 140B.

Equivalent Quarter Course: BIOL 3410.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

BIOL 443 - Hematology

Units: 4

Basic morphology, function and composition of human blood fluids and cells, both normal and diseased.

Lecture Units: 3; Lab Units: 1

Prerequisites: BIOL 140B and CHEM 112.

Equivalent Quarter Course: BIOL 3430.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

BIOL 444 - Medical Entomology

Units: 3

Role of arthropods in the transmission of human pathogens. General anatomy, physiology, and classification of medically important arthropods, as well as the epidemiology and pathogenesis of their associated diseases, and the principles and methods of vector control.

Prerequisites: BIOL 140B.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

BIOL 445 - Immunology

Units: 3

Topics include the innate and adaptive immune systems; emphasizing key experiments in immunology, TLR signaling, NK cells, complement, antimicrobial peptides, phagocytes, genetics, structure and function of immune molecules, lymphocyte activation, hypersensitivity reactions and regulation of immune responses.

Prerequisites: BIOL 310 and CHEM 332.

Equivalent Quarter Course: BIOL 4430.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

BIOL 454 - Biology of Fungi

Units: 4

Major lineages of Kingdom Fungi, including their classification, evolution, life cycles, ecology, morphology and development, with focus on the medical, economic and cultural applications and significance of this diverse group of organisms. *Lecture Units: 3; Lab Units: 1*

Prerequisites: BIOL 140B with grade C- or better.

Equivalent Quarter Course: BIOL 4425.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

BIOL 455 - Vertebrate Biology

Units: 4

Biology, evolution, diversity, and natural history of vertebrate species. Labs involve identification of anatomical and physiological features and taxonomy of fishes, amphibians, reptiles, birds, and mammals, with focus on species found in the San Francisco Bay Area. *Lecture Units: 2; Lab Units: 2*

Prerequisites: BIOL 140B.

Equivalent Quarter Course: BIOL 4583.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

BIOL 458 - Animal Behavior

Units: 4

Behavioral patterns of animals with emphasis on their evolution and ecological significance. Topics to be considered include social living, mating and reproduction, antipredator strategies, and the influence of genetics and the environment on behavioral activities. *Lecture Units: 3; Lab Units: 1*

Prerequisites: BIOL 140B.

Equivalent Quarter Course: BIOL 4518.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

BIOL 460 - Ecology and Evolutionary Biology Undergraduate Seminar

Units: 2

A seminar course at the undergraduate level emphasizing the reading, interpretation, discussion and

analysis of primary literature from the fields of Ecology and Evolutionary Biology.

Prerequisites: BIOL 320 and BIOL 350.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

BIOL 466 - Population Biology

Units: 4

Study of the sizes, distributions and genetics of natural populations, including the processes affecting reproduction, age structure, density, growth, population fluctuations and evolution. *Lecture Units: 2; Lab*

Units: 2

Prerequisites: BIOL 320.

Equivalent Quarter Course: BIOL 4175.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

BIOL 468 - Molecular Ecology

Units: 4

Use of molecular genetic tools in addressing basic and applied questions in ecological research, including ecological, population and conservation genetics, microbial ecology, behavioral ecology and phylogeography. Course includes intensive hands-on laboratories, lectures and student-led discussions.

Lecture Units: 2; Lab Units: 2

Prerequisites: BIOL 310 and BIOL 320.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

BIOL 469 - Conservation Biology

Units: 4

Biological, economic, political and ethical issues inherent to current conservation problems. Concepts covered include the causes and consequences of biodiversity loss, conservation approaches and strategies, and the ecological, evolutionary, and anthropogenic influences underlying these issues. *Lecture Units: 3;*

Lab Units: 1

Prerequisites: BIOL 350.

Credit Restrictions: Not open for students with credit for BIOL 6350 or BIOL 6351.

Equivalent Quarter Course: BIOL 4351 or BIOL 4350.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

BIOL 470 - Animal Senses

Units: 4

How animals use remarkable sensory abilities to communicate, navigate, and detect prey, predators and mates, including sensory systems such as echolocation, electroreception, and magnetoreception, as well as vision, smell, touch, and hearing. Discussion of research and scientific writing emphasized.

Strongly Recommended Preparation: BIOL 471.

Prerequisites: BIOL 370.

Equivalent Quarter Course: BIOL 4513.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

BIOL 471 - Neurobiology

Units: 3

The structure and function of the vertebrate and invertebrate nervous system with emphasis on the principles of communication, control, and sensorimotor responses. Survey of concepts of neurochemistry, feedback, bionic models, and higher brain processes.

Prerequisites: BIOL 370.

Equivalent Quarter Course: BIOL 4510.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

BIOL 472 - Neurobiology Laboratory

Units: 4

Basic principles of neurobiology demonstrated using laboratory experiments that include intracellular and extracellular nerve recording, membrane potentials, action potentials, sensory and motor neural processing, nerve tracing, and histology. *Lecture Units: 2; Lab Units: 2*

Prerequisites: BIOL 471.

Equivalent Quarter Course: BIOL 4512.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

BIOL 473 - Comparative Physiology

Units: 3

Physiology of metabolic, respiratory, circulatory, excretory, muscle, and nervous systems of vertebrates and invertebrates with an emphasis on physiological diversity and adaptation.

Prerequisites: BIOL 370.

Equivalent Quarter Course: BIOL 4504.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

BIOL 474 - Biomedical Physiology

Units: 3

Physiological processes and interactions at the molecular, cellular, and organ levels involved in human pathology. Provides a foundation for understanding the etiology, recognition, and treatment of diseases and the mechanisms of drugs.

Strongly Recommended Preparation: CHEM 340.

Prerequisites: BIOL 370; or BIOL 270 and BIOL 271.

Equivalent Quarter Course: BIOL 4160.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

BIOL 475 - Global Change Biology

Units: 4

Mechanisms by which plants, animals, and ecosystems are responding to global change and to appreciate the links between physical, chemical, and biological systems and human activities. *Lecture Units: 3; Lab Units: 1*

Prerequisites: BIOL 370.

Equivalent Quarter Course: BIOL 4355.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

BIOL 476 - General Endocrinology

Units: 3

A broad study of endocrinology from both an anatomical and physiological perspective including synthesis, distribution, and regulation of hormones in human and animal endocrine systems, as well as the pathophysiology of endocrine disorders.

Prerequisites: BIOL 370.

Equivalent Quarter Course: BIOL 4505.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

BIOL 488 - Environmental Physiology

Units: 3

Concepts in environmental physiology emphasizing adaptations to environmental stressors. Physiological strategies for living in extreme environments and impacts of exposure to recent environmental challenges (e.g., climate change, pollution) also discussed.

Prerequisites: BIOL 370.

Equivalent Quarter Course: BIOL 4516.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

BIOL 490 - Independent Study

Units: 1-4

Independent study in biological science under the supervision a department faculty member.

Prerequisites: Department consent and minimum 2.0 GPA.

Equivalent Quarter Course: BIOL 4900.

Repeatability: May be repeated for credit with consent of instructor, for a maximum of 12 units.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

BIOL 497 - Issues in Biological Science

Units: 1-3

Readings, discussion, and research on contemporary and/or significant issues in biological science

Equivalent Quarter Course: BIOL 3999.

Repeatability: May be repeated for credit when content varies, for a maximum of 6 units.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

SCI 308 - Hands-On Science Teaching

Units: 1

Direct experience teaching science to visiting elementary and middle school students. Foundational science concepts demonstrated in engaging activities that promote scientific thinking. Emphasis on Crosscutting Concepts underlying and linking the natural sciences as explicated in the Next Generation Science Standards.

Prerequisites: Department consent.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

Biological Science: Graduate

BIOL 601A - Foundations of Scientific Research

Units: 1

Foundations of Master's level skills needed to complete a research thesis. Application of the scientific method in the context of thesis formulation, experimental design, and accessing/evaluating scientific literature. Involves critical review of sample thesis proposals and drafting original thesis proposal.

Prerequisites: M.S. Biological Science major.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

BIOL 601B - Foundations of Scientific Communication

Units: 1

Foundations of Master's level skills for effectively communicating scientific information. Application of the scientific method, in the context of communicating scientific findings and evidence-based conclusions. Emphasizes strategies in the presentation of scientific content and data to various audiences.

Prerequisites: BIOL 601A.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

BIOL 602 - Preparation for Undergraduate Instruction in Biology

Units: 3

Prepares graduate students for the roles and responsibilities of the Biology Teaching Associate (TA). Involves training in disciplinary pedagogy, policies, and safety. Provides opportunities to develop teaching skills, access resources, receive feedback, and participate in a support network.

Prerequisites: M.S. Biological Science major.

Possible Instructional Methods: *Entirely On-ground.*

Grading: ABC/NC grading only.

BIOL 610 - Seminar in Cell & Molecular Biology

Units: 2

Presentation, discussion and analysis of current research literature in Cell & Molecular Biology.

Strongly Recommended Preparation: Consultation with Thesis Advisor.

Prerequisites: M.S. Biological Science major.

Equivalent Quarter Course: BIOL 6821.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

BIOL 616 - Cell and Molecular Biology I

Units: 3

Principles of Molecular Biology, with focus on molecular techniques, genomics, proteomics, epigenetics, and control of gene expression.

Prerequisites: BIOL 310.

Equivalent Quarter Course: BIOL 6151.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

BIOL 618 - Cell and Molecular Biology II

Units: 3

Principles of eukaryotic cell biology emphasizing the structure, behavior and function of membranes and associated molecules, organelles including the endomembrane system, cell-cell junctions, the cytoskeleton and signal transduction.

Prerequisites: BIOL 616.

Equivalent Quarter Course: BIOL 6152.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

BIOL 620 - Functional Genomics

Units: 3

Laboratory course covering genome-wide analysis of gene and protein function, using molecular techniques. Discussion and practice in experimental design, data mining, and data analysis. *Lecture Units: 1; Lab Units: 2*

Strongly Recommended Preparation: BIOL 424.

Prerequisites: BIOL 415 or BIOL 427.

Equivalent Quarter Course: BIOL 6147.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

BIOL 622 - Advanced Molecular Techniques

Units: 3

A laboratory course covering the theory, practice and application of advanced techniques in molecular biology through guided research projects and discussions of the primary literature. Techniques include current methods in recombinant DNA construction, nucleic acid isolation and gene expression analysis. *Lecture Units: 1; Lab Units: 2*

Strongly Recommended Preparation: BIOL 424.

Prerequisites: BIOL 415 or BIOL 427.

Equivalent Quarter Course: BIOL 6141.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

BIOL 630 - Seminar in Microbiology

Units: 2

Seminar involving presentation, discussion, and analysis of current research literature in Microbiology.

Strongly Recommended Preparation: Consultation with Thesis Advisor.

Prerequisites: M.S. Biological Science major.

Equivalent Quarter Course: BIOL 6831.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

BIOL 631 - Microbial Physiology and Biochemistry

Units: 3

Microbial function and biology required to fully understand microbial growth relevant to medical and economic importance, including the exploitation of microbial processes for biotechnological advancement.

Prerequisites: BIOL 330 and CHEM 331.

Credit Restrictions: Not open to those with credit for BIOL 4405 or BIOL 430.

Equivalent Quarter Course: BIOL 6405.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

BIOL 650 - Seminar in Ecology and Evolution

Units: 2

A seminar course involving presentation, discussion and analysis of current research literature in Ecology & Evolution.

Strongly Recommended Preparation: Consultation with Thesis Advisor.

Prerequisites: M.S. Biological Science major.

Equivalent Quarter Course: BIOL 6801.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

BIOL 652 - Advances in Ecology and Evolution

Units: 3

Advanced survey of experimental ideas and techniques studied in ecology and evolutionary biology.

Prerequisites: M.S. Biological Science major.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

BIOL 653 - Community and Ecosystem Biology

Units: 4

Structure, dynamics, and distribution aspects of ecological communities and food web relationships to whole ecosystems. Lectures and field trips on selected communities, with emphasis on those of Central California and San Francisco Bay Area, watersheds, and ecosystem restoration projects. *Lecture Units: 3; Lab Units: 1*

Prerequisites: M.S. Biological Science major.

Equivalent Quarter Course: BIOL 6530 and BIOL 6160.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

BIOL 655 - Phylogenetic Methods

Units: 3

Provides students with the knowledge required to collect, analyze and interpret molecular sequence data using phylogenetic methodologies. Topics include aligning molecular sequence data, analyzing data with parsimony, likelihood and Bayesian methods, and utilizing phylogenetic information for hypothesis testing. *Lecture Units: 2; Lab Units: 1*

Prerequisites: M.S. Biological Science major.

Equivalent Quarter Course: BIOL 6550.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

BIOL 657 - Environmental Experimental Analysis

Units: 4

Advanced applications of graphic modeling, experimental design, direct and remote monitoring, and modern statistical analyses of ecological/environmental experiments, particularly concerning an organism's responses to its environment. Field trips. *Lecture Units: 3; Lab Units: 1*

Prerequisites: M.S. Biological Science major.

Equivalent Quarter Course: BIOL 4530 or BIOL 6120.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

BIOL 670 - Seminar in Physiology

Units: 2

A seminar course involving presentation, discussion and analysis of current research literature in Physiology.

Strongly Recommended Preparation: Consultation with Thesis Advisor.

Prerequisites: M.S. Biological Science major.

Equivalent Quarter Course: BIOL 6811.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

BIOL 671 - Advanced Topics in Physiology

Units: 3

Advanced study of selected areas of physiology with emphasis on recent research developments and experimental techniques. Includes in-depth discussions of physiological mechanisms at the molecular, cellular, and systems levels.

Prerequisites: M.S. Biological Science major.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

BIOL 672 - Microscopic Methods: Quantitative Analysis of Structure & Function

Units: 3

In-depth analysis of cell and tissue structure and function using advanced microscopy techniques including confocal. Students will learn optical theory, labeling techniques, sample preparation methods, and digital imaging and video analysis and quantification. *Lecture Units: 1; Lab Units: 2*

Prerequisites: BIOL 140A.

Co-requisites: BIOL 601B.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice)

BIOL 690 - Independent Study

Units: 1-4

Independent study in biological sciences under the supervision of a member of the graduate faculty.

Prerequisites: Department consent and minimum 3.0 GPA.

Equivalent Quarter Course: BIOL 6900.

Repeatability: May be repeated for credit for a maximum of 4 units.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

BIOL 691 - University Thesis

Units: 1-5

Development and writing of a formal research paper for submission to the university in the specified format. Supervision by a departmental committee, at least one of whom must be a Cal State East Bay faculty member. Oral defense required.

Strongly Recommended Preparation: Consultation with thesis advisor.

Prerequisites: Department consent.

Equivalent Quarter Course: BIOL 6910.

Repeatability: May be repeated for credit with approval by department for a maximum of 5 units.

Possible Instructional Methods: *Entirely On-ground.*

Grading: CR/NC grading only.

BIOL 697 - Issues in Biological Science

Units: 1-3

Readings, discussion, and research on contemporary and/or significant issues in biological science

Equivalent Quarter Course: BIOL 6999.

Repeatability: May be repeated for credit when content varies, for a maximum of 6 units.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

BIOL 698 - Internship

Units: 1-4

Supervised work experience in which student completes academic assignments integrated with off-campus paid or volunteer activities.

Prerequisites: Department consent and minimum 3.0 GPA.

Credit Restrictions: Only four (4) units may be applied to biology graduate degree.

Equivalent Quarter Course: BIOL 6898.

Repeatability: May be repeated for credit for a maximum of 8 units.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

Biostatistics: Graduate

BSTA 661 - Categorical Data Analysis

Units: 2

Applied methods for discrete data. Topics may include: proportions and counts, contingency tables, loglinear models, logistic regression, Poisson regression, generalized linear models. Data integrity. Computing techniques and analysis of discrete data. Use of SAS. Report writing.

Prerequisites: STAT 631 and STAT 632.

Equivalent Quarter Course: BSTA 6651 or STAT 6651.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

Cross-listed: STAT 661.

BSTA 662 - Survival Analysis

Units: 2

Applied methods for survival analysis. Incomplete data, censored, and truncated data, life tables, nonparametric, semiparametric, and parametric methods. Accelerated failure time models, proportional hazards models, partial likelihood and advanced topics. Data integrity. Computing techniques and analysis of clinical data. Use of SAS. Report writing.

Prerequisites: BSTA 661.

Equivalent Quarter Course: BSTA 6652.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

BSTA 663 - Clinical Trials in the Pharmaceutical and Biomedical Industries

Units: 2

Statistical principles, design, management of clinical trials. Topics include: recruitment, treatment allocation, stratification, blinding. Practical applications. Ethics of clinical trials. Data collection, data analysis. Data integrity, monitoring. Domestic/international regulatory guidelines emphasized. Professional protocols. Introduction to CDISC. Report writing, oral presentation.

Prerequisites: BSTA 662.

Equivalent Quarter Course: BSTA 6653.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

BSTA 668 - Longitudinal Data Analysis

Units: 2

Introduction to the principles and methods for the analysis of longitudinal data, repeated measures, and correlated outcomes, including the unbalanced and incomplete data that are characteristic of observational longitudinal data. Generalized estimating equations and generalized linear mixed models.

Prerequisites: STAT 631 and STAT 632.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

Business

BUS 335 - Communications in Team Building

Units: 3

Explores competencies associated with personal and professional success. Topics may include how to communicate effectively, how to work well with others, how to set goals, and how to use influence to achieve those goals.

Prerequisites: B.S. Business Administration major or Business Administration minor.

Possible Instructional Methods: Entirely On-ground, Entirely On-line.

Grading: A-F grading only.

Chemistry

CHEM 100 - Introduction to College Chemistry

Units: 3 ; G.E./G.R. Area: B1, B3

Elementary principles of chemistry, including experimentation and science practices: measurement, properties of matter, periodic table, energy conversion and transfer, phase changes, chemical reactions, atomic theory, laws of conservation of matter and energy, reaction rates, thermal and chemical equilibria, nuclear reactions. *Lecture Units: 2; Lab Units: 1*

Co-requisites: MATH 115 or MATH 118; or MATH 120, MATH 125, or MATH 130.

Equivalent Quarter Course: CHEM 1100.

Possible Instructional Methods: Entirely On-ground.

Grading: A-F or CR/NC (student choice).

G.E./G.R. Area Satisfied: B1 - Lower Division Physical Science, B3 - Lower Division Laboratory Activity

CHEM 110 - General Chemistry for Engineering

Units: 3 ; G.E./G.R. Area: B1, B3

Elementary principles of chemistry including experimentation, laboratory skills, and science practices. Focused on real-world applications, connections to engineering, and systems thinking, including: properties of matter, energy, phase changes, chemical reactions, atomic structure and theory, reaction rates, equilibria, and electrochemistry. *Lecture Units: 2; Lab Units: 1*

Co-requisites: MATH 120, MATH 125 or MATH 130.

Credit Restrictions: Not for chemistry major or minor credit.

Possible Instructional Methods: Entirely On-ground.

Grading: A-F or CR/NC (student choice).

G.E./G.R. Area Satisfied: B1 - Lower Division Physical Science, B3 - Lower Division Laboratory Activity

CHEM 111 - General Chemistry I

Units: 5 ; G.E./G.R. Area: B1, B3

Fundamental principles of chemistry: periodic trends, composition of compounds and solutions, stoichiometry, gases, heat and enthalpy, atomic and molecular structure, bonding. Laboratory includes study of the chemical and physical behavior of elements and compounds, and qualitative and quantitative analysis. *Lecture Units: 3; Lab Units: 2*

Co-requisites: MATH 120, MATH 125 or MATH 130.

Equivalent Quarter Course: CHEM 1101 and CHEM 1102.

Possible Instructional Methods: Entirely On-ground.

Grading: A-F or CR/NC (student choice).

G.E./G.R. Area Satisfied: B1 - Lower Division Physical Science, B3 - Lower Division Laboratory Activity

CHEM 112 - General Chemistry II

Units: 5

Fundamental principles of chemistry: solutions, kinetics, equilibrium, acids and bases, entropy and free energy, electrochemistry, nuclear chemistry, transition metals, and organic chemistry. Laboratory includes study of the chemical and physical behavior of elements and compounds, and qualitative and quantitative analysis. *Lecture Units:* 3; *Lab Units:* 2

Prerequisites: CHEM 111 with grade C- or better.

Equivalent Quarter Course: CHEM 1102 and CHEM 1103.

Possible Instructional Methods: Entirely On-ground.

Grading: A-F or CR/NC (student choice).

CHEM 161 - Basic Chemistry for the Health Sciences

Units: 4 ; *G.E./G.R. Area:* B1, B3

A one semester, terminal course in chemistry for students preparing for careers in health-related sciences including nursing. Covers basic inorganic and organic chemistry, and an introduction to biochemistry.

Lecture Units: 3; *Lab Units:* 1

Co-requisites: STAT 100 or MATH 115; or MATH 120, MATH 125, or MATH 130.

Credit Restrictions: Not for Chemistry or Biochemistry major or minor credit; not open to students with credit for CHEM 165.

Equivalent Quarter Course: CHEM 1610 or CHEM 1615.

Possible Instructional Methods: Entirely On-ground.

Grading: A-F or CR/NC (student choice).

G.E./G.R. Area Satisfied: B1 - Lower Division Physical Science, B3 - Lower Division Laboratory Activity

CHEM 162 - Basic Biochemistry for the Health Sciences

Units: 3

An introduction to basic biochemistry with emphasis on the structure and function of proteins, carbohydrates, and lipids as they relate to human health.

Prerequisites: CHEM 161 or CHEM 165, both with grade C- or better.

Credit Restrictions: Not for Chemistry or Biochemistry major or minor credit.

Equivalent Quarter Course: CHEM 1620.

Possible Instructional Methods: Entirely On-ground.

Grading: A-F or CR/NC (student choice).

CHEM 165 - Basic Chemistry for Healthier Living

Units: 4 ; G.E./G.R. Area: B1, B3

A chemical perspective for healthier living. Covers basic inorganic and organic chemistry, and an introduction to biochemistry. *Lecture Units: 3; Lab Units: 1*

Co-requisites: STAT 100 or MATH 115; or MATH 120, MATH 125, or MATH 130.

Credit Restrictions: Not for Chemistry or Biochemistry major or minor credit; not open to students with credit for CHEM 161.

Equivalent Quarter Course: CHEM 1610 or CHEM 1615.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

G.E./G.R. Area Satisfied: *B1 - Lower Division Physical Science, B3 - Lower Division Laboratory Activity*

CHEM 220 - Quantitative Analysis

Units: 4

An introduction to analytical chemistry including determination of error in measurement, statistical analysis of data, acid-base equilibria, and electrochemical, spectrometric, and chromatographic methods of analysis. Focus on development of applied laboratory skills and practical application of technique.

Lecture Units: 2; Lab Units: 2

Prerequisites: CHEM 112 with grade C- or better.

Equivalent Quarter Course: CHEM 2200.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

CHEM 230 - Survey of Organic Chemistry

Units: 5

An introduction to the basic principles of organic chemistry with an emphasis on the chemistry of functional groups. Laboratory work in experimental organic chemistry techniques. *Lecture Units: 4; Lab Units: 1*

Prerequisites: CHEM 112 with grade C- or better.

Credit Restrictions: Not for chemistry or biochemistry major or minor credit

Equivalent Quarter Course: CHEM 2301 and CHEM 2302.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

CHEM 233 - Fundamentals of Organic Chemistry

Units: 3

Basic physical and chemical properties of the major classes of organic compounds. Emphasis is placed on those aspects of organic chemistry that are relevant to the study of human and environmental health.

Prerequisites: CHEM 112 with grade C- or better.

Credit Restrictions: Not for Chemistry or Biochemistry major or minor credit.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

CHEM 301 - Chemistry Connections

Units: 3 ; G.E./G.R. Area: B6

Connections between chemistry and other natural sciences and engineering with real-world applications and examples. Focus is on preparing to teach under the K12 Next Generation Science Standards with the goal of teaching science with confidence.

Prerequisites: Completion of GE areas A1, A2, A3 and B4 ; and CHEM 100.

Equivalent Quarter Course: CHEM 3011.

Possible Instructional Methods: *Entirely On-line.*

Grading: A-F or CR/NC (student choice).

G.E./G.R. Area Satisfied: *B6- Upper Division Science Inquiry and Quantitative Reasoning*

CHEM 302 - Chemistry Connections Laboratory

Units: 1

Laboratory experience demonstrating connections between chemistry and other natural sciences and engineering. The course focuses on K12 Next Generation Science Standards with the goal of teaching science with confidence.

Strongly Recommended Preparation: CHEM 301 (concurrent or completion).

Prerequisites: CHEM 100.

Equivalent Quarter Course: CHEM 3012.

Possible Instructional Methods: *Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F or CR/NC (student choice).

CHEM 320 - Bioanalytical and Forensic Instrumentation

Units: 3

The lecture portion of the class will discuss the fundamental theories in forensic chemistry and the laboratory component will cover the practical aspects and techniques currently used in forensic analytical chemistry. *Lecture Units: 2; Lab Units: 1*

Prerequisites: CHEM 230 or CHEM 332, both with grade C- or better.

Equivalent Quarter Course: CHEM 3200.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

CHEM 331 - Organic Chemistry I

Units: 5

Fundamental principles of organic chemistry including nomenclature, properties and reactions of organic compounds emphasizing reaction mechanisms. Laboratory work in basic techniques and synthesis.

Lecture Units: 3; Lab Units: 2

Prerequisites: CHEM 112 with grade C- or better.

Equivalent Quarter Course: Students who have completed CHEM 3301 and CHEM 3302 will receive credit for CHEM 331.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

CHEM 332 - Organic Chemistry II

Units: 5

Continuation of CHEM 331 Fundamental principles of organic chemistry including properties and reactions of organic compounds emphasizing reaction mechanisms, and spectroscopic analysis. Further laboratory work in basic synthesis and organic analysis. *Lecture Units: 3; Lab Units: 2*

Prerequisites: CHEM 331 with grade C- or better.

Equivalent Quarter Course: Students who have completed CHEM 3302 and CHEM 3303 will receive credit for CHEM 332.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

CHEM 340 - Survey of Biochemistry

Units: 3

A survey course covering structures of biomolecules (amino acids, proteins, carbohydrates, lipids, nucleic acids, nucleotides, and vitamins), mechanisms of membrane transport, enzyme kinetics, and cellular metabolic processes.

Prerequisites: CHEM 230 or CHEM 332, both with grade C- or better.

Equivalent Quarter Course: CHEM 3400.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

CHEM 350 - Biophysical Chemistry

Units: 3

A presentation of the fundamental concepts of physical chemistry with emphasis on applications in biological macromolecules. Thermodynamics, chemical equilibrium, enzyme kinetics, basic quantum chemistry, and molecular spectroscopy will be covered.

Prerequisites: CHEM 112, MATH 131, and PHYS 126 or PHYS 136, all with grade C- or better.

Equivalent Quarter Course: CHEM 3501.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

CHEM 351 - Physical Chemistry I

Units: 3

Fundamental principles of kinetic molecular theory, chemical thermodynamics, chemical equilibrium, phase equilibrium, and chemical kinetics.

Prerequisites: CHEM 332, MATH 230, PHYS 136, all with grade C- or better.

Equivalent Quarter Course: Students who have completed CHEM 3511 and CHEM 3512 will receive credit for CHEM 351.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

CHEM 352 - Physical Chemistry II

Units: 3

Fundamental principles of time-independent quantum mechanics. Translational, vibrational, and rotational motion, atomic structure, valence bond and molecular orbital theory.

Prerequisites: CHEM 351 with grade C- or better.

Equivalent Quarter Course: Students who have completed CHEM 3512 and CHEM 3513 will receive credit for CHEM 352.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

CHEM 355 - Physical Chemistry Laboratory

Units: 2

Experience in the measurement of physicochemical properties, automated data acquisition, computer analysis of experimental data, and report writing.

Co-requisites: CHEM 351.

Equivalent Quarter Course: CHEM 3531 and 3532.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

CHEM 398 - Internship

Units: 1-3

Introduction to the internship experience; integration of the academic program with career aspirations; emphasis on internship readiness and preparation for professional success.

Prerequisites: Department consent and minimum 2.0 GPA.

Credit Restrictions: No units may be applied to the Chemistry major or minor.

Equivalent Quarter Course: CHEM 3898.

Repeatability: May be repeated with department consent for a maximum of 3 units.

Possible Instructional Methods: *Entirely On-ground.*

Grading: CR/NC grading only.

CHEM 410 - Advanced Inorganic Chemistry

Units: 4

Fundamental principles of inorganic chemistry with applications to the structure, bonding, and reactivity of main group inorganic compounds, coordination and organometallic compounds, and solid state.

Prerequisites: CHEM 332; and CHEM 350 or CHEM 351, all with grade C- or better.

Equivalent Quarter Course: CHEM 4161 and CHEM 4162.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

CHEM 415 - Inorganic Chemistry Laboratory

Units: 2

Laboratory experience in the preparation and characterization of main group element inorganic compounds and transition metal coordination complexes.

Prerequisites: CHEM 410 with grade C- or better.

Equivalent Quarter Course: CHEM 4180.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

CHEM 420 - Instrumental Analysis

Units: 3

Principles of operation and application of various analytical instruments including visible/ultraviolet, infrared, inductive coupled plasma optical emission, fluorescence, nuclear magnetic resonance and mass spectroscopy, gas-liquid and high-performance liquid chromatography, and the basic electronics of a simple spectrometer. *Lecture Units: 2; Lab Units: 1*

Prerequisites: CHEM 220, CHEM 332; and PHYS 126 or PHYS 136, all with grade C- or better.

Equivalent Quarter Course: CHEM 4240.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

CHEM 425 - Environmental Chemistry

Units: 4

Application of chemical principles to natural processes and related anthropogenic influences. Topics

include analysis of multiple equilibria systems, influence of pH and redox on solubility, interactions between soil and aqueous systems, atmospheric pollutants, and current topics. *Lecture Units: 3; Lab Units: 1*

Prerequisites: CHEM 331 with grade C- or better.

Equivalent Quarter Course: CHEM 4601 and CHEM 4602.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

CHEM 430 - Advanced Organic Chemistry

Units: 3

Mechanistic approaches to synthetic studies; the chemistry of carbonyl, heterocyclic, and polycyclic compounds with emphasis on those of natural origin or biological interest; determining and writing reasonable organic reaction mechanisms.

Prerequisites: CHEM 332 with grade C- or better.

Equivalent Quarter Course: CHEM 4311.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

CHEM 441 - Biochemistry I

Units: 4

A detailed description of the structure-function relationships of biological molecules (amino acids, proteins, carbohydrates, lipids and nucleotides), with emphasis on representative proteins, membrane composition and transport, enzymes and signaling.

Prerequisites: CHEM 332 with grade C- or better.

Equivalent Quarter Course: Students who have completed CHEM 4411 and CHEM 4412 will receive credit for CHEM 441.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

CHEM 442 - Biochemistry II

Units: 4

A detailed description of metabolism of biological molecules (carbohydrate, lipids, proteins, amino acids, nucleotides, and nucleic acids), gene expression and replication, and protein synthesis.

Prerequisites: CHEM 441 with grade C- or better.

Equivalent Quarter Course: Students who have completed CHEM 4412 and CHEM 4413 will receive credit for CHEM 442.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

CHEM 443 - Biochemistry Laboratory I

Units: 3

Laboratory techniques in biochemistry with a focus on protein purification and enzyme kinetics. Intended to supplement CHEM 441 Biochemistry I. *Lecture Units: 1; Lab Units: 2*

Strongly Recommended Preparation: CHEM 220.

Co-requisites: CHEM 441.

Equivalent Quarter Course: CHEM 4430.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

CHEM 444 - Biochemistry Laboratory II

Units: 3

Laboratory techniques in biochemistry. Continuation of CHEM 443 with emphasis on immunological techniques for protein characterization and manipulation of nucleic acids. *Lecture Units: 1; Lab Units: 2*

Prerequisites: CHEM 443 with grade C- or better.

Co-requisites: CHEM 442.

Equivalent Quarter Course: CHEM 4431.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

CHEM 445 - Protein Structure

Units: 3

Fundamentals of protein structure and its relationship to function including structural motifs and domain classification. Emphasis on methods for determination and analysis of three dimensional protein structures.

Co-requisites: CHEM 441.

Equivalent Quarter Course: CHEM 4440.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

CHEM 446 - Nucleic Acid Chemistry

Units: 3

Nucleic acid structure, modification and processing. Emphasis on methods for chemical characterization of DNA and RNA, genome structure and organization, regulation of the transcriptome, recombinant DNA techniques and use of DNA databases.

Co-requisites: CHEM 442.

Equivalent Quarter Course: CHEM 4450.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

CHEM 447 - Major Organ Biochemistry

Units: 3

Detailed study of the unique biochemistry and metabolism of selected major organs and their interrelationships under various physiological conditions.

Co-requisites: CHEM 442.

Equivalent Quarter Course: CHEM 4460.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

CHEM 450 - Classical and Statistical Thermodynamics

Units: 3

Comprehensive treatment of selected topics in classical and statistical thermodynamics with biochemical applications.

Prerequisites: CHEM 352 with grade C- or better.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

CHEM 470 - Chemical Literature

Units: 1

Systematic introduction to the use of the chemical literature, including the use of physical library resources and online database searching.

Prerequisites: CHEM 332 with grade C- or better.

Equivalent Quarter Course: CHEM 4700.

Possible Instructional Methods: *Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F grading only.

CHEM 480 - Undergraduate Research

Units: 1-2

Original research in chemistry under the supervision of a member of the department faculty.

Prerequisites: Department consent.

Equivalent Quarter Course: CHEM 4810.

Repeatability: Repeatable for a maximum of 4 units

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

CHEM 481 - Senior Thesis

Units: 1-2

Development and writing of a formal research paper on original research under the supervision of a member of the department faculty.

Prerequisites: Department consent.

Equivalent Quarter Course: CHEM 4811.

Repeatability: Repeatable for a maximum of 2 units

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

CHEM 490 - Independent Study

Units: 1-4

Independent study in chemistry under the supervision of a member of the department faculty. Students may apply no more than 12 units of independent study in the major department and 8 units in other departments to a baccalaureate degree.

Prerequisites: Department consent and minimum 2.0 GPA.

Equivalent Quarter Course: CHEM 4900.

Repeatability: Repeatable for a maximum of 4 units

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

CHEM 497 - Issues in Chemistry

Units: 3

Readings, discussion, and research on contemporary and/or significant issues in chemistry.

Equivalent Quarter Course: CHEM 3999.

Repeatability: May be repeated for credit when content varies, for a maximum of 6 units.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

Chemistry: Courses for Non-Science Majors

CHEM 106 - Chemistry and Society

Units: 3 ; G.E./G.R. Area: B1; Sustainability

Introduction to basic chemistry concepts and chemistry applications in everyday life. Topics include energy production, drugs, pesticides, plastics and polymers, the impact of chemicals on the environment, and sustainable chemistry practices.

Possible Instructional Methods: *Entirely On-ground, Entirely On-line, Hybrid (every section of this course may be*

taught both online and on-ground).

Grading: A-F or CR/NC (student choice).

G.E./G.R. Area Satisfied: B1 - Lower Division Physical Science, Overlay - Sustainability

CHEM 304 - Chemistry of Wine Making

Units: 3 ; G.E./G.R. Area: B6

The history, chemistry and technology of wine making. Production of standard types of wine from grape varieties. Laboratory illustrates chemical principles as applied to wine making. *Lecture Units: 2; Lab Units: 1*

Prerequisites: Completion of GE areas A1, A2, A3, B1 and B4.

Credit Restrictions: Not for Chemistry or Biochemistry major or minor credit.

Equivalent Quarter Course: CHEM 3010.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

G.E./G.R. Area Satisfied: B6- Upper Division Science Inquiry and Quantitative Reasoning

CHEM 306 - Green Chemistry and Sustainability

Units: 3 ; G.E./G.R. Area: B6

Introduction to the principles and fundamental concepts of general and green chemistry with an emphasis on relevant implications for the environment, technology, and public policy.

Prerequisites: Completion of GE areas A1, A2, A3, B1 and B4.

Credit Restrictions: Not for Chemistry or Biochemistry major or minor credit.

Possible Instructional Methods: *Entirely On-ground, Entirely On-line, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F or CR/NC (student choice).

G.E./G.R. Area Satisfied: B6 - Upper Division Science Inquiry and Quantitative Reasoning

Chemistry: Graduate

CHEM 621 - Molecular Spectroscopy

Units: 3

Investigation of the physical principles of current molecular spectroscopic methods and their applications in chemical, biochemical and biophysical research.

Prerequisites: CHEM 352 with grade C- or better.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

CHEM 631 - Graduate Organic Chemistry

Units: 3

The theory and mechanism of organic reactions. Topics include conformational and stereochemical analysis, energetics of reaction paths, reaction kinetics, and chemical catalysis.

Prerequisites: CHEM 332 with grade C- or better.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

CHEM 641 - Graduate Biochemistry

Units: 3

Review of biochemical fundamentals, followed by in-depth coverage of selected topics such as enzyme mechanisms, signaling, membrane function, photosynthesis, advanced metabolism, and DNA repair.

Prerequisites: CHEM 442 with grade C- or better.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

CHEM 642 - Protein Chemistry Techniques

Units: 3

Techniques in protein chemistry. Methods for protein quantification, separation, identification and structure determination. Emphasis on modern methods such as liquid chromatography, electrophoresis, isoelectric focusing, expression vectors, immunological probing, mass spectrometry and computer-based analysis. *Lecture Units: 1; Lab Units: 2*

Prerequisites: CHEM 340 or CHEM 441, both with grade C- or better.

Equivalent Quarter Course: CHEM 6430.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

CHEM 651 - Graduate Physical Chemistry

Units: 3

Mathematical formulation of quantum theory, approximation methods, semiclassical theory of interaction between light and matter. Emphasis on applications to the study of atoms and molecules.

Prerequisites: CHEM 352 with grade C- or better.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

CHEM 652 - Computational Chemistry

Units: 3

Theory and application of molecular-scale simulation techniques for molecules, clusters, and condensed

phases. Introduction to the use of computational chemistry codes and molecular visualization tools.

Prerequisites: CHEM 651 with grade C- or better.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

CHEM 680 - Seminar

Units: 1

Seminar based on oral presentations, given by the students enrolled, of current chemical literature or reports of research in progress. Effective communication and presentation skills will be emphasized.

Prerequisites: M.S. Chemistry major.

Equivalent Quarter Course: CHEM 6820.

Repeatability: May be repeated once for credit for a maximum of 2 units.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

CHEM 681 - Research

Units: 1-2

Original research in chemistry under the supervision of a member of the graduate faculty.

Prerequisites: Department consent.

Equivalent Quarter Course: CHEM 6830.

Repeatability: May be repeated for credit for a maximum of 4 units.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

CHEM 690 - Independent Study

Units: 1-3

Independent study in chemistry under the supervision of a member of the graduate faculty.

Prerequisites: Department consent and minimum 3.0 GPA.

Equivalent Quarter Course: CHEM 6900.

Repeatability: May be repeated for credit for a maximum of 3 units.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

CHEM 691 - University Thesis

Units: 2

Development and writing of a formal research paper for submission to the university in the specified format. Supervision by a departmental committee, at least one of whom must be a California State East

Bay faculty member.

Prerequisites: Department consent.

Equivalent Quarter Course: CHEM 6910.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

CHEM 692 - Comprehensive Exam

Units: 2

Comprehensive examination comprising of a review of the relevant areas of chemistry from the MS degree program.

Prerequisites: Department consent.

Equivalent Quarter Course: CHEM 6901.

Possible Instructional Methods: *Entirely On-ground.*

Grading: CR/NC grading only.

CHEM 693 - Review Paper

Units: 2

Development and writing of a formal review paper under the supervision of a member of the graduate faculty.

Prerequisites: Department consent.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

CHEM 697 - Issues in Chemistry

Units: 3

Readings, discussion, and research on contemporary and/or significant issues in chemistry.

Prerequisites: M.S. Chemistry major.

Equivalent Quarter Course: CHEM 6999.

Repeatability: May be repeated for credit when content varies, for a maximum of 6 units.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

CHEM 698 - Internship

Units: 1-3

Formal advanced work opportunities integrating the academic program with their career aspirations. Integral advanced hands-on experience enhancing education and preparing for professional and personal success.

Prerequisites: Department consent and minimum 3.0 GPA.

Credit Restrictions: No units may be applied to the Chemistry major.

Equivalent Quarter Course: CHEM 6898.

Repeatability: May be repeated with department consent for a maximum of 6 units.

Possible Instructional Methods: *Entirely On-ground.*

Grading: CR/NC grading only.

Communication

COMM 100 - Public Speaking

Units: 3 ; G.E./G.R. Area: A1

Theory, practice, and evaluation of oral communication through public speeches. Emphasis on ethical responsibility, careful selection and development of ideas, logical organization, sound reasoning, audience analysis, and delivery of informative, persuasive, and argumentative discourse. Must earn C- or better for GE credit.

Equivalent Quarter Course: COMM 1000.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

G.E./G.R. Area Satisfied: *A1- Lower Division Oral Communication*

COMM 104 - Interpersonal Communication

Units: 3 ; G.E./G.R. Area: A1

Study of principles of oral communication within interpersonal encounters. Emphasizes how to analyze communicative behavior and to practice applied listening and speaking strategies for improving oral communication skills and relationships in the interpersonal contexts of work, family, friendship, and romance. Must earn C- or better for GE credit.

Equivalent Quarter Course: COMM 1004.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

G.E./G.R. Area Satisfied: *A1- Lower Division Oral Communication*

COMM 202 - Communication, Media and Culture

Units: 4

Explores culture as expression of human agency, hinging on a reciprocal relationship between communication and culture. Critically investigates embodied, symbolic, technological, material, oral, visual, social, and ideological aspects of cultural studies.

Equivalent Quarter Course: COMM 3002.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

COMM 203 - Communication Theories

Units: 4

Students identify, analyze, and apply a broad spectrum of communication theories. Includes traditional and critical perspectives, with emphasis on cultural and diversity issues, and the impact of emerging media technologies.

Equivalent Quarter Course: COMM 3003.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

COMM 206 - New Media in the Digital Age

Units: 4

Interrogate how the social, political, and cultural landscape has changed in relationship to digital media technologies. Develop critical resources to better understand the history and future of these new media technologies and emerging communicative forms.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

COMM 224 - Argumentation and Advocacy

Units: 4

Students identify, analyze, and apply theories of argumentation to controversies in the personal, professional, and public spheres, emphasizing traditional and critical/cultural approaches to evidence and reasoning.

Equivalent Quarter Course: COMM 3204.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

COMM 235 - Famous Politics: Media, Celebrity and Social Life

Units: 3

In this 3-unit course we examine the role of celebrity in our social/political lives. We explore electoral politics as well as cultural politics and larger global politics as they relate to the phenomenon of celebrity.

Equivalent Quarter Course: COMM 3245.

Possible Instructional Methods: *Entirely On-ground, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F or CR/NC (student choice).

COMM 240 - Visual Communication and Culture

Units: 4

Students will become critical readers of visual images by employing a variety of communication-based theoretical frameworks and analytical approaches (e.g. semiotics, rhetoric) to visual artifacts, texts and acts. Explore how visual images persuade. Students will select examples of visual rhetoric to analyze, which culminates in an essay and creative project of their choosing.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

COMM 255 - Queer Cultures: Knowledge and Literacy

Units: 3 ; G.E./G.R. Area: D1-3; Social Justice

Examination of queer life through creative expression in the mainstream and as a form of self-representation. We begin with terms that communities use to express themselves. Inquiries are grounded in queer theory and critical cultural studies.

Equivalent Quarter Course: COMM 2550.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

G.E./G.R. Area Satisfied: *D1-3 - Lower Division Social Sciences, Overlay - Social Justice*

COMM 256 - Persuasion Theory and Practice

Units: 4

Identify, examine, and apply theories of persuasive communication. Emphasis on cultural and diversity variables, media, and strategic applications.

Equivalent Quarter Course: COMM 3560; COMM 320 also equivalent to COMM 3560.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

COMM 260 - Documentary Film Studies

Units: 3 ; G.E./G.R. Area: C2

History of documentary film to the present day. Students will screen some of the most prolific documentary films ever made and will discuss their impact on society as art, politics, social impact and social justice.

Equivalent Quarter Course: COMM 2600.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

G.E./G.R. Area Satisfied: *C2 - Lower Division Humanities*

COMM 266 - Digital Media Production Abroad

Units: 3 ; G.E./G.R. Area: C2

Theories and practices of digital media production. Students will produce VNRs, short documentaries, still-life images, and travel blogs while learning technical skills and executing their understanding of the planning process of digital media production in a multicultural environment. *Lecture Units: 2; Activity Units: 1*

Equivalent Quarter Course: COMM 3691.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice)

G.E./G.R. Area Satisfied: *C2 - Lower Division Humanities*

COMM 300 - History and Criticism of Communication

Units: 4

History of communication and media emphasizing origins and significant developments through the ages. Critical study of media exploring its effects, roles, dramatic innovation in emerging media technologies, and impact of globalization in recent years.

Equivalent Quarter Course: COMM 3000.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

COMM 304 - Quantitative Communication Research Methods

Units: 4

An overview of quantitative communication research methods, including survey research, observation, and experiments. Emphasizes design of research, writing, understanding, and presentation of descriptive and inferential statistics in communication.

Equivalent Quarter Course: COMM 3004.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

COMM 305 - Qualitative Communication Research Methods

Units: 4

An overview of qualitative communication research methods, measures, analysis, and theoretical understandings of "audience". Students become versed in the advantages of qualitative approaches and conduct primary qualitative research and analysis.

Equivalent Quarter Course: COMM 3005.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

COMM 310 - Introduction to Organizational Communication & Long Term Thinking

Units: 4

Analysis and application of theory and principles of human communication in private and public organizational settings. Historical survey of metaphors and their influence on organizational practices. Developing a long term and futures thinking mindset. Principles of strategic scenario planning, forecasting.

Equivalent Quarter Course: COMM 3107.

Possible Instructional Methods: *Entirely On-ground, Entirely On-line, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F grading only.

COMM 312 - Journalism History and Social Justice

Units: 4

History, organization, social role, and function of journalism and its potential to help bring about social change for justice and equity as it has done since the founding of the republic.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

COMM 314 - Journalism Theory and Practice

Units: 4

Analysis of journalism and other media through a lens of cultural studies. Students examine media content and norms that guide news production, including organizational and other ideological influences on content. Students examine and begin to practice journalism as social justice.

Possible Instructional Methods: *Entirely On-ground, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F grading only.

COMM 316 - Media and Government

Units: 4

Critical relationships between the news media and government. Attention will be devoted to how the news media influence the nation's social, cultural, economic and political development and how a lack of trust diminishes both critical entities.

Equivalent Quarter Course: COMM 4150.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

COMM 318 - Journalism Law and Ethics

Units: 4

Explores ethical and legal questions in the context of digital and traditional media from a variety of theoretical perspectives. Examines foundations of freedom of speech and press. Topics include censorship, libel, access to information, copyright, invasion of privacy, electronic speech.

Equivalent Quarter Course: COMM 4205.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

COMM 320 - Persuasion in Media

Units: 4

Examination of rhetorical influences of messages channeled through a broad variety of media, as well as rhetorical messages that influence various media.

Equivalent Quarter Course: COMM 3560; COMM 256 also equivalent to COMM 3560

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

COMM 321 - Research in Persuasive Communication

Units: 4

Social-scientific approaches to the study of persuasion. Emphasis on application of persuasion theories and principles, research on attitude structure and formation, attitude-behavior relationship, audience analysis, communication campaigns, and public opinion.

Possible Instructional Methods: *Entirely On-ground, Entirely On-line, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F grading only.

COMM 323 - Communication of Difference

Units: 4

Students will examine issues of difference in communication and media. Emphasis will vary each semester, with topics that may include but are not limited to sex/gender, race/ethnicity, age, religion, income inequality.

Equivalent Quarter Course: COMM 4300.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

COMM 326 - Social Media and Social Change Literacies

Units: 4

Introduces the literature about and direct experience of social media literacies: research foundations and

best practices of individual digital participation and collective participatory culture, the use of collaborative media and methodologies, and the application of network know-how to life online.

Possible Instructional Methods: *Entirely On-ground, Entirely On-line, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F grading only.

COMM 328 - Multimedia Reporting & Writing I

Units: 4

Foundations of the journalistic craft, including reporting methods, genres of news and writing approaches. Topics include interviewing, basic research, inverted pyramid leads, background and nut graphs, and basic multimedia elements. Emphasis on diverse publics. *Lecture Units: 1; Activity Units: 3*

Equivalent Quarter Course: COMM 2200.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

COMM 330 - Critical/Cultural Studies

Units: 4

With emphasis on contemporary digital media, investigates the evolution and interplay of communication, media technologies and content, culture and society, to explore constructions of identity (race, gender, ability, age), social relations/community, political discourse, and moral/political economies.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

COMM 333 - Photojournalism

Units: 2

Essentials of documentary-style journalistic photography, including news, sports and entertainment genres. Students create individual portfolios and serve as photographers for Pioneer Media .

Equivalent Quarter Course: COMM 3225.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

COMM 335 - Visual and Multimedia Storytelling I

Units: 2

This course explores visual storytelling in journalism. Students use video, sound, and still images to produce publishable multimedia work relating to social change or highlighting social problems and solutions.

Equivalent Quarter Course: COMM 3224.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

COMM 357 - Principles of Advertising

Units: 4

Principles of advertising applied to the creation and production of advertising messages in their many forms including the investigation of the psychological, sociological, economic, and legal aspects.

Co-requisites:

Equivalent Quarter Course: COMM 4520.

Possible Instructional Methods: *Entirely On-ground, Entirely On-line, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F grading only.

COMM 358 - Principles of Public Relations

Units: 4

Principles of public relations as applied to the creation and production of messages for institutions and industry. Analysis of various and diverse "publics" and public opinion including investigation of the psychological, sociological, economic, political and ethical foundations.

Co-requisites:

Equivalent Quarter Course: COMM 4510.

Possible Instructional Methods: *Entirely On-ground, Entirely On-line, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F grading only.

COMM 361 - Professional Speaking in Strategic Communication

Units: 4

Principles, techniques, and skills for interpersonal and public speaking in advertising, public relations, and marketing communication. Topics include pitch presentations, talking to media, client briefings, speaker training modules, and multimedia presentations. Emphasis on message development, delivery, preparation and multimedia aids.

Co-requisites:

Possible Instructional Methods: *Entirely On-ground, Entirely On-line, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F grading only.

COMM 362 - User Experience Research and Design

Units: 4

Theories and principles of human-centered design for effective communication. Possible topics include usability testing and design across multimedia platforms from mobility, tangibility and ubiquitous applications to human-future interaction.

Co-requisites:

Possible Instructional Methods: *Entirely On-ground, Entirely On-line, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F grading only.

COMM 369 - Documentary History and Theory Abroad

Units: 4 ; G.E./G.R. Area: C4

Explores indigenous documentary films of host country from 19th century to present. Engages documentary at a multi-cultural level as global consumer and citizen; examine and understand influence of multi-media visual rhetoric; analyze, discuss, create arguments about messages in documentary films.

Prerequisites: Completion of GE areas A1, A2, A3 and B4.

Equivalent Quarter Course: COMM 3690.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

G.E./G.R. Area Satisfied: *C4 - Upper Division Arts or Humanities*

COMM 387 - Advertising Design and Production

Units: 4

An applied course emphasizing creative copywriting and layout design, media planning and buying, and account management. Students acquire hands-on experience in the preparation of advertising materials for the Pioneer Advertising Agency.

Prerequisites: COMM 357.

Possible Instructional Methods: *Entirely On-ground, Entirely On-line, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F grading only.

COMM 388 - Public Relations Practice

Units: 4

An applied course emphasizing message writing, editing, graphic design, layout, and dissemination across multimedia platforms for communication with various organizational publics. Students acquire hands-on experience in the preparation of departmental publications.

Prerequisites: COMM 358.

Possible Instructional Methods: *Entirely On-ground, Entirely On-line, Hybrid (every section of this course may be*

taught both online and on-ground).

Grading: A-F grading only.

COMM 398 - Internship

Units: 1-4

Supervised work experience in which student completes academic assignments integrated with off-campus paid or volunteer activities.

Prerequisites: Department consent and minimum 2.0 GPA.

Credit Restrictions: Not open for credit in Communication major or minor.

Equivalent Quarter Course: COMM 3898.

Repeatability: May be repeated for credit, for a maximum of 8 units.

Possible Instructional Methods: *Entirely On-ground.*

Grading: CR/NC grading only.

COMM 400 - Film, Communication and Culture

Units: 4

Analyzes the communicative impact of film on culture, and how culture influences film.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

COMM 410 - Organizing Cultures of Innovation and Empathy

Units: 4

How do we create cultures of innovation and empathy? Negotiating and designing effective strategic conversations within organizations explored. Case studies of the past, present and anticipated future of organizational relationships discussed. Organizational pathologies and healthy communication re-framed with innovative perspectives.

Possible Instructional Methods: *Entirely On-ground, Entirely On-line, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F grading only.

COMM 416 - Communication, Technology, and Social Change

Units: 4

Investigates the interplay of communication, media technologies, content and society, looking at the way media and communication participate in structuring identity, social relations, political economy. Examines participatory culture, media change, innovation, the participation gap, informal learning and knowledge communities.

Possible Instructional Methods: *Entirely On-ground, Entirely On-line, Hybrid (every section of this course may be*

taught both online and on-ground).

Grading: A-F grading only.

COMM 417 - Game Studies

Units: 4

Considers games both as media and as sites of communication and culture. Games are studied through hands-on play and texts from a variety of disciplinary perspectives. Course may encompass commercial, academic, and independent games.

Possible Instructional Methods: *Entirely On-ground, Entirely On-line, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F grading only.

COMM 418 - Organizational Change, Creativity, and Innovation

Units: 4

The ability to manage innovation and change in organizations is essential for increasingly turbulent environments. This course aims to enhance students' understanding of innovation and creative processes in organizations and how to manage such processes effectively.

Possible Instructional Methods: *Entirely On-ground, Entirely On-line, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F grading only.

COMM 420 - Organizational Transformation

Units: 4

How can we anticipate the future of work? Learn about the new online economy and organizational change beyond one dominated by an economics of monopoly, extraction, and surveillance. Could the Internet be owned and governed differently? Visionary strategic leadership developed.

Possible Instructional Methods: *Entirely On-ground, Entirely On-line, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F grading only.

COMM 425 - Digital Cultures

Units: 4

Identifies how computers, networks, and media technologies reproduce, reinforce, and rework cultural trends, norms, and values. Addresses media innovation and debates over social computing, artificial intelligence, virtual communities, virtual reality. Considers alternative ways to imagine and forecast emerging communication technologies.

Possible Instructional Methods: *Entirely On-ground, Entirely On-line, Hybrid (every section of this course may be*

taught both online and on-ground).

Grading: A-F grading only.

COMM 428 - Multimedia Reporting and Writing II

Units: 4

Advanced multimedia reporting and writing techniques, feature writing styles, producing journalism for multiple genres such as sports, arts and culture, and politics. Emphasis on journalism for social impact. Students publish multimedia work in Pioneer Media. *Lecture Units: 1; Activity Units: 3*

Prerequisites: COMM 328.

Equivalent Quarter Course: COMM 3010.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

COMM 430 - Media Studies

Units: 4

Examines the historical, philosophical, technological, economic, political, and sociological dimensions of media studies as a field of inquiry. Emphasizes contemporary concerns in effects research and critical research.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

COMM 433 - Discourses of Difference

Units: 4

Students analyze, critique and create forms of spoken, written and visual communication that engage concepts of "difference". Topics may include gender, race, class, ethnicity, sexual identity, age, ability, and mental health.

Equivalent Quarter Course: COMM 4300 or COMM 4500.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

COMM 435 - Visual and Multimedia Storytelling II

Units: 2

Students will deepen their experience in multimedia storytelling using a number of software programs and techniques, including graphics, talent, music, and social media engagement. Students will be expected to create quality work to be published.

Prerequisites: COMM 333.

Equivalent Quarter Course: COMM 3223.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

COMM 453 - Strategic Communication Campaigns

Units: 4

Applies theories and principles of advertising, public relations, political campaigns and marketing communication to research, creation and production of all aspects of an actual campaign. Emphasis on the importance of a coordinated effort integrating various strategic communication tools.

Prerequisites: COMM 357 and COMM 358.

Equivalent Quarter Course: COMM 4530.

Possible Instructional Methods: *Entirely On-ground, Entirely On-line, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F grading only.

COMM 455 - Communication, Media, and Society

Units: 4

An overview of media studies as a field of inquiry, including an evolutionary historical perspective culminating in the present state of the field. Emphasis is given to inquiry and analysis of content, medium and social interactions around the medium.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

COMM 461 - Popular Culture

Units: 4

Critical analysis of how popular culture (music, television, advertising, movies, fashion, style, social media, etc.) works and doesn't work dialectically in our interactions with self and others.

Equivalent Quarter Course: COMM 4610.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

COMM 465 - Identity and Difference in Media

Units: 4

Examines the construction and deployment of identity in and through electronic media. Takes up theories of difference, such as intersectionality, disidentification, and homonormativity. Emphasizes marginality, border-crossings, transgression, and critical examinations of oppression and resistance.

Prerequisites: Department consent.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

COMM 470 - Communication Campaigns

Units: 4

Study of research, practice, and criticism of communication campaigns in public, political, and professional settings. Topics may include persuasion, media effects, political communication, relationships between public relations, advertising, and media.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

COMM 471 - Strategic Communication and Difference

Units: 4

Discussion of current theories, research, and issues to increase understanding and insight into developing effective strategic communication approaches and messages to reach and engage diverse audiences. Topics may include ethnicity, social economic status, gender, age, sexual identity, religion, and ability.

Co-requisites:

Equivalent Quarter Course: COMM 4500 or COMM 4515.

Possible Instructional Methods: *Entirely On-ground, Entirely On-line, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F grading only.

COMM 475 - Digital Organizational Communication

Units: 4

This course provides knowledge, skills, and terminology to understand development and management of digital economy organizations/communities. Students learn to engage with, critique, and discuss online communities through timely readings, guest lecturers, discussions, influential industry blogs and academic publications.

Prerequisites: Department consent.

Possible Instructional Methods: *Entirely On-ground, Entirely On-line, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F or CR/NC (student choice).

COMM 480 - Moral Economies of Digital Media

Units: 4

What are social and other emerging media? Who gains? How are they transforming the media landscape and how we inhabit the world? Analysis of a range of media tools and their implications toward what Trebor Scholz calls "participation literacy."

Prerequisites: Department consent.

Possible Instructional Methods: *Entirely On-ground, Entirely On-line, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F or CR/NC (student choice).

COMM 485 - Future of Media and Society

Units: 4

Study of the landscape of current and future media with the aim of creating stories about emerging media. Covers short, medium and long-term evolution in technology and culture. Uses scenario planning as a technique for considering complex, unpredictable interrelationships.

Prerequisites: Department consent.

Possible Instructional Methods: *Entirely On-ground, Entirely On-line, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F or CR/NC (student choice).

COMM 488 - Conflict Management

Units: 4

Theory and application of communication methods for managing expressed disagreements in personal, professional, and public communication spheres.

Equivalent Quarter Course: COMM 4880.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

COMM 490 - Independent Study

Units: 1-4

Independent study under the supervision a department faculty member.

Prerequisites: Department consent and minimum 2.0 GPA.

Credit Restrictions: No more than 12 units of independent study may be applied in the major department and 8 units in other departments to a baccalaureate degree.

Equivalent Quarter Course: COMM 4900.

Repeatability: May be repeated for credit, with department consent, for a total of 12 units.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

COMM 493 - Capstone: Social Justice Project

Units: 2

The student experience culminates in a long-form multimedia project. Students produce and

publish multimedia work with an underlying theme relating to social change or highlighting social problems and solutions.

Prerequisites: All of: COMM 328, COMM 335, COMM 428.

Equivalent Quarter Course: COMM 3221.

Possible Instructional Methods: *Entirely On-ground, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F grading only.

COMM 495 - Journalism Practicum

Units: 2

Students spend at least one semester producing journalism for Pioneer Media , operating under the direction of a faculty advisor and editor-in-chief. May be repeated once.

Prerequisites: COMM 328 and COMM 335.

Equivalent Quarter Course: COMM 3220.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

COMM 496 - Topics in Communication

Units: 4

Selected topics in communication beyond regular course offerings. Subjects will vary and will be specified at time of offering.

Repeatability: May be repeated for credit when content varies for a maximum of 8 units.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

COMM 497 - Issues in Communication

Units: 4

Students will examine an important issue in communication, with attention to rhetorical, technological, critical, and cultural impacts; variable content.

Equivalent Quarter Course: COMM 3999.

Repeatability: May be repeated once for credit for a maximum of 8 units.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

Communication: Graduate

COMM 600 - Introduction to Graduate Study

Units: 1

Introduction to the skills and attitudes relating to scholarly writing; includes approaching and justifying research, literature reviews, practice writing research proposals, conducting advanced library research, and the ethics of research.

Equivalent Quarter Course: COMM 6000.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

COMM 601 - Theories in Communication

Units: 4

In-depth reading of theories of communication across the discipline/field. Examines interconnections among theories, development of theories of communication, and the relationship of theory to criticism and practice.

Equivalent Quarter Course: COMM 6010.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

COMM 602 - Critical Cultural Methods

Units: 4

Contemporary perspectives on cultural studies as an interdisciplinary field of inquiry and as a research method. Emphasizes foundational scholars and commonly used methods such as content analysis, political economy and audience research.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

COMM 603 - Advanced Quantitative Research Methods

Units: 4

Quantitative approaches to communication social-scientific research, emphasizing applied research skills. Covers research design, statistical and data analysis, and recent advances in quantitative inquiry.

Prerequisites: COMM 304.

Equivalent Quarter Course: COMM 6050.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

COMM 604 - Advanced Qualitative Research Methods

Units: 4

Qualitative approaches to communication research, emphasizing applied research skills. Covers major

traditions in communication qualitative research and recent advances in interpretive methods.

Equivalent Quarter Course: COMM 6040.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

COMM 605 - Contemporary Rhetoric

Units: 4

Integrates the study of messages and mediatized communication within public and professional spheres, engaging tensions among theory, criticism, practice, service, and ethics across research in rhetoric, communication, and media.

Equivalent Quarter Course: COMM 6400.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

COMM 620 - Internship in Communication

Units: 1-4

Supervised experience in a variety of communication activities inside and outside the university.

Prerequisites: Department consent.

Equivalent Quarter Course: COMM 6200.

Repeatability: May be repeated for credit for a maximum of 12 units.

Possible Instructional Methods: *Entirely On-ground.*

Grading: CR/NC grading only.

COMM 625 - Teaching Communication

Units: 4

Theories of learning and motivations to learn. Development of strategies to communicate course content and to encourage learning for the diversity of students in the communication classroom.

Equivalent Quarter Course: COMM 6250.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

COMM 630 - Media Studies

Units: 4

Examines the historical, philosophical, technological, economic, political, and sociological dimensions of media studies as a field of inquiry. Emphasizes contemporary concerns in effects research and critical research.

Equivalent Quarter Course: COMM 6300.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

COMM 640 - Advanced Rhetorical Studies

Units: 4

Selected topics from the philosophy and theory of rhetoric, with original research by the student in areas of particular interest; special attention to the literature relating to selected topics.

Prerequisites: COMM 605.

Equivalent Quarter Course: COMM 6030.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

COMM 645 - Media and Globalization

Units: 4

Examines perspectives on globalization of media and the special role media play in globalization. Draws perspectives from political economy and critical media studies.

Equivalent Quarter Course: COMM 6450.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

COMM 655 - Communication, Media, and Society

Units: 4

An overview of media studies as a field of inquiry, including an evolutionary historical perspective culminating in the present state of the field. Emphasis is given to inquiry at the levels of content, medium and social interactions around the medium.

Equivalent Quarter Course: COMM 6020.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

COMM 665 - Identity and Difference in Media

Units: 4

Examines the construction and deployment of identity in and through electronic media. Takes up theories of difference, such as intersectionality, disidentification and homonormativity. Emphasizes marginality, border-crossings, transgression, and critical examinations of oppression and resistance.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

COMM 670 - Communication Campaigns

Units: 4

Study of research, practice, and criticism of communication campaigns in public, political, and professional settings. Topics may include persuasion, media effects, political communication, relationships between public relations, advertising, and media.

Equivalent Quarter Course: COMM 6700.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

COMM 675 - Digital Organizational Communication

Units: 4

This course provides knowledge, skills, and terminology to understand development and management of digital economy organizations/communities. Students learn to engage with, critique, and discuss online communities through timely readings, guest lecturers, discussions, influential industry blogs and academic publications.

Possible Instructional Methods: *Entirely On-ground, Entirely On-line, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F grading only.

COMM 680 - Moral Economies of Digital Media

Units: 4

Analysis of a range of media tools and their implications toward what Trebor Scholz calls "participation literacy." What are social and other emerging media? Who gains? How are they transforming the media landscape and how we inhabit the world?

Possible Instructional Methods: *Entirely On-ground, Entirely On-line, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F grading only.

COMM 685 - Future of Media and Society

Units: 4

Study of the landscape of current and future media with the aim of creating stories about emerging media. Covers short, medium and long-term evolution in technology and culture. Uses scenario planning as a technique for considering complex, unpredictable interrelationships.

Possible Instructional Methods: *Entirely On-ground, Entirely On-line, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F grading only.

COMM 690 - Independent Study

Units: 1-4

Independent study in Communications under supervision of instructor.

Prerequisites: Department consent and minimum 3.0 GPA.

Equivalent Quarter Course: COMM 6900.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

COMM 691 - University Thesis

Units: 1-6

Development and writing of a formal research paper for submission to the university in the specified format. Supervision by departmental committee, two of whom must be Communication faculty members. Oral defense is required.

Prerequisites: Post-baccalaureate standing.

Equivalent Quarter Course: COMM 6910.

Possible Instructional Methods: *Entirely On-ground.*

Grading: CR/NC grading only.

COMM 692 - Comprehensive Exams

Units: 2

Graduate comprehensive examination. Directed readings, comprehensive essay exam questions, and an oral defense.

Prerequisites: Department consent.

Equivalent Quarter Course: COMM 6901.

Possible Instructional Methods: *Entirely On-ground.*

Grading: CR/NC grading only.

COMM 693 - Project

Units: 1-6

Development of original product summarized in a written abstract. Project and abstract are submitted to the department which specifies their formats. Supervision by departmental committee, at least two must be Communication faculty members. Oral defense is required.

Prerequisites: Post-baccalaureate standing.

Equivalent Quarter Course: COMM 6899.

Possible Instructional Methods: *Entirely On-ground.*

Grading: CR/NC grading only.

COMM 696 - Topics in Communication

Units: 4

Selected topics in communication beyond regular course offerings. Subjects will vary and will be specified at time of offering.

Prerequisites: Department consent.

Equivalent Quarter Course: COMM 6100.

Repeatability: May be repeated for credit when content varies for a maximum of 8 units.

Possible Instructional Methods: *Entirely On-ground, Entirely On-line, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F grading only.

COMM 697 - Issues In Communication

Units: 4

Readings, discussion, and research on contemporary and/or significant issues in communication.

Equivalent Quarter Course: COMM 6999.

Repeatability: May be repeated for credit when content varies, for a maximum of 8 units.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

COMM 698 - Internship

Units: 1-3

Formal advanced work opportunities integrating the academic program with their career aspirations. Integral advanced hands-on experience enhancing education and preparing for professional and personal success.

Prerequisites: Department consent and minimum 3.0 GPA.

Credit Restrictions: No more than 3 units may be applied to the Communication major.

Equivalent Quarter Course: COMM 6898.

Repeatability: May be repeated with department consent for a maximum of 6 units.

Possible Instructional Methods: *Entirely On-ground.*

Grading: CR/NC grading only.

Computer Engineering

CMPE 322 - Digital Design Laboratory

Units: 1

Design and implementation of combinational and sequential digital logic circuits. Digital Logic Gates, Boolean Algebra, K-maps, latches, flip-flops, registers, multiplexers, state machines. Hardware description language and FPGA programming, interface with digital hardware components.

Co-requisites: CS 321.

Equivalent Quarter Course: CMPE 3432.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

CMPE 330 - Electric Circuits II

Units: 3

A study of transistor-amplifier design, small- and large-signal models for diodes, BJTs, and MOSFETS, including operating points, biasing, and frequency responses. Active filters and amplifier topologies and design strategies. Introduction to design and operation of digital circuit components. *Lecture Units: 2; Lab Units: 1*

Prerequisites: ENGR 230.

Equivalent Quarter Course: CMPE 3010.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

CMPE 344 - Microprocessor Laboratory

Units: 3

Microprocessor organization, operation, and programming. Hardware/software interaction, I/O port interfacing, interfacing with analog and digital electronic devices. *Lecture Units: 2; Lab Units: 1*

Prerequisites: CS 301.

Equivalent Quarter Course: CMPE 3434.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

CMPE 370 - Digital Signal Processing I

Units: 3

Mathematical modeling of signals and systems. Continuous and discrete signals, with applications to audio, images, video, communications, and control. Frequency domain modeling and frequency response. Sampling of continuous-time signals. A simulation-based laboratory is part of the course. *Lecture Units: 2; Lab Units: 1*

Prerequisites: CMPE 330.

Equivalent Quarter Course: CMPE 3752.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

CMPE 398 - Internship

Units: 1-3

Introduction to the internship experience; integration of the academic program with career aspirations; emphasis on internship readiness and preparation for professional success.

Prerequisites: Department consent and minimum 2.0 GPA.

Credit Restrictions: No more than 3 units may be applied to the Engineering major.

Equivalent Quarter Course: CMPE 3898.

Repeatability: May be repeated with department consent for a maximum of 6 units.

Possible Instructional Methods: *Entirely On-ground.*

Grading: CR/NC grading only.

CMPE 421 - Computer Architecture II

Units: 3

Advanced computer organization and design. Topics chosen from among RISC architectures, computer arithmetic, pipelining, cache memory and parallel processors.

Prerequisites: CS 321 and CMPE 322.

Equivalent Quarter Course: CMPE 4435.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

CMPE 430 - Analog Design

Units: 3

Single stage and multistage transistor amplifier design. Biasing circuits, amplifier gain, and input/output impedance. Transient analysis and frequency analysis of active and passive networks. Bode plots and Nyquist stability. *Lecture Units: 2; Lab Units: 1*

Prerequisites: CMPE 330.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

CMPE 470 - Digital Signal Processing II

Units: 4

Implementation of signal processing systems in a floating-point DSP processor. DSP processor programming, memory management, interrupts, interfacing with registers, assembly language instructions, hardware datasheet interpretation. Real-time DSP applications involving filtering, and A/D and D/A conversion. *Lecture Units: 3; Lab Units: 1*

Prerequisites: CMPE 370.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

CMPE 480 - VLSI Circuit Design/Layout

Units: 3

Fundamental design techniques for VLSI circuits. Properties of silicon, polysilicon, metal, n-type, and p-type materials. NMOS and PMOS transistor sizing and delay for logic functions. Implementation of complex integrated circuits on a microchip. Use of computer aided design tools.

Prerequisites: CHEM 110 and CS 321.

Equivalent Quarter Course: CMPE 4432.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

CMPE 490 - Independent Study

Units: 1-4

Independent study under the supervision a department faculty member.

Prerequisites: Department consent and minimum 2.0 GPA.

Credit Restrictions: No more than 12 units of independent study may be applied in the major department and 8 units in other departments to a baccalaureate degree.

Equivalent Quarter Course: CMPE 4900.

Repeatability: May be repeated for credit, with department consent, for a total of 12 units.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

CMPE 492 - Senior Design I

Units: 3

Generation of engineering career documents, such as resume cover letter, project proposal, Gantt chart, bill of materials, and patent application. Initial contact with client, and project planning. Introduction to Scrum project methodology.

Prerequisites: All of: ENGR 310, CMPE 344, CMPE 370.

Equivalent Quarter Course: CMPE 4610.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

CMPE 493 - Senior Capstone: Senior Design II

Units: 3

Technical development and completion of a capstone design project. Continuous feedback from project clients, teammates, and instructor. Introduction to Scrum methodology. Mock U.S. Patent application, and completion of a technical journal article. Satisfies the capstone requirement.

Prerequisites: CMPE 492.

Co-requisites: CMPE 480.

Equivalent Quarter Course: CMPE 4620.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

CMPE 497 - Issues in Computer Engineering

Units: 3

Readings, discussion, and research on contemporary and/or significant issues in engineering.

Equivalent Quarter Course: CMPE 3999.

Repeatability: May be repeated for credit when content varies, for a maximum of 6 units.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

Computer Science

CS 100 - Programming for Everyone

Units: 3

An introduction to computer programming for non majors. Topics include interdisciplinary computing applications, computer systems, algorithm design, and programming language control structures. Programming projects in the Python programming language.

Credit Restrictions: Not for Computer Science major or minor credit.

Equivalent Quarter Course: CS 1160.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

CS 101 - Computer Science I

Units: 4

An introduction to computer programming for computer science majors. Topics include problem solving, algorithms, basic control structures, and program design. Programming projects in Python or other high level programming language. *Lecture Units: 3; Lab Units: 1*

Prerequisites: Mathematics/QR Placement Category I or II, or successful completion of GE area B4.

Equivalent Quarter Course: CS 1160 and CS 2360.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

CS 180 - Computers in Action

Units: 3

Introduction to computer applications and the role of computer technology in society. Introduction to

word processing, spreadsheet applications, presentation software, basic database management, and website development.

Credit Restrictions: Not for computer science major or minor credit

Equivalent Quarter Course: CS 1020.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

CS 200 - Advanced Programming for Everyone

Units: 3

Further development of programming and problem solving skills, debugging techniques and testing. Topics include elementary data structures, object oriented design, and searching, sorting, and graph algorithms. Programming projects in the Python programming language.

Prerequisites: CS 100.

Credit Restrictions: Not for Computer Science major or minor credit.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

CS 201 - Computer Science II

Units: 4

Further development of programming and problem solving skills in the C++ programming language. Topics include Abstract Data Types (ADTs), data structures (stacks, queues, trees), and object oriented design. Sorting and searching algorithms. *Lecture Units: 3; Lab Units: 1*

Prerequisites: CS 101 with grade C- or better.

Equivalent Quarter Course: CS 2360 and CS 2370.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

CS 211 - Discrete Structures

Units: 3

Propositional logic and predicate calculus, set theory, inference, induction, recursion, divide-and-conquer, enumeration, graphs and topology, trees, binary trees and traversals, Boolean algebra, logic gates, asymptotic notation and algorithm analysis, combinatorics, cryptography, discrete probability, computational modeling.

Prerequisites: MATH 130 with grade C- or better.

Equivalent Quarter Course: MATH 2150.

Possible Instructional Methods: *Entirely On-ground, Entirely On-line, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F grading only.

Cross-listed: MATH 211

CS 221 - Computer Organization and Assembly Language

Units: 3

A study of the functional organization of digital computers. Fundamental principles of control and datapath units, program counter, ALU, multiplexers, registers, and memory. Digital logic gates and Boolean functions. Introduction to assemblers, linkers, and loaders. Programming with assembly language.

Prerequisites: CS 100 or CS 101, both with grade C- or better.

Equivalent Quarter Course: CS 2430.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

CS 230 - Computing and Social Responsibility

Units: 3 ; G.E./G.R. Area: D1-3

Social impact and ethical aspects of computing, information privacy, security, social networking, software piracy, system reliability, human-computer interaction, net neutrality, workforce displacement, the Digital Divide, societal dependence on computing, the Internet as a democratic instrument of social change, and cyberethics.

Possible Instructional Methods: *Entirely On-ground, Entirely On-line, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F or CR/NC (student choice).

G.E./G.R. Area Satisfied: *D1-3 - Lower Division Social Sciences*

CS 250 - Introduction to Web Programming

Units: 3

Technology and design of web systems and services for non majors. Human factors issues, computer-human interfaces design, web system design, development and testing. Website development using multimedia graphics, image, and animation tools. Topics include e-commerce solutions and networking fundamentals.

Credit Restrictions: Not for CS major credit

Equivalent Quarter Course: CS 2020.

Possible Instructional Methods: *Entirely On-ground, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F or CR/NC (student choice).

CS 300 - Discovering Computer Science

Units: 3

Introduction to computer science. Computational problem solving as a vehicle for scientific inquiry across disciplinary boundaries, computer hardware and software, fundamental principles in computer science including abstraction, efficiency and algorithmic design, programming in Closure, Python, or other high-level programming languages.

Strongly Recommended Preparation: Any GE area B4 course.

Prerequisites: Completion of GE area B4.

Credit Restrictions: Not for Computer Science major or minor credit.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

CS 301 - Data Structures and Algorithms

Units: 4

Design and implementation of abstract data structures including stacks, queues, doubly-linked and circularly-linked lists, binary search trees, heaps, priority queues and graphs; algorithmic analysis and asymptotic notation; binary search, heapsort, merge sort, quicksort, and radix sort. *Discussion Units: 3; Lab Units: 1*

Prerequisites: CS 201 and CS 211.

Equivalent Quarter Course: CS 3240.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

CS 311 - Programming Language Concepts

Units: 3

Survey and comparison of a variety of computer languages and their use in particular domains. Topics include formal descriptions of syntax and semantics, control structures, data representation, design and implementation of imperative and functional languages. Programming projects in several languages.

Prerequisites: CS 201 and CS 221.

Equivalent Quarter Course: CS 3120.

Possible Instructional Methods: *Entirely On-ground, Entirely On-line, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F grading only.

CS 321 - Computer Architecture

Units: 3

Logical design of digital computers. Boolean algebra, combinational and sequential circuits, computer arithmetic, memories, integrated circuits, control processors, input/output.

Prerequisites: CS 211 and CS 221, both with grade C- or better.

Equivalent Quarter Course: CS 3430.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

CS 350 - Databases for Social and Health Sciences

Units: 3

Relational and hierarchical data models, database system architecture, and approaches for managing large volumes of social and health sciences data.

Prerequisites: CS 200.

Credit Restrictions: Not for Computer Science major or minor credit.

Possible Instructional Methods: *Entirely On-ground, Entirely On-line, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F or CR/NC (student choice).

CS 351 - Website Development

Units: 3

Website development emphasizing presentation layer with client side and server side technologies. Topics covered include HTML, CSS, media, JavaScript, CGI server-side programming.

Prerequisites: CS 301.

Equivalent Quarter Course: CS 3520.

Possible Instructional Methods: *Entirely On-ground, Entirely On-line, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F grading only.

CS 400 - Computer Programming for Science

Units: 3

An introduction to programming for science majors. Emphasis on scientific applications and data manipulation using Python and associated scientific libraries.

Prerequisites: MATH 130.

Credit Restrictions: Not for computer science major or minor credit.

Possible Instructional Methods: *Entirely On-ground, Entirely On-line, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F or CR/NC (student choice).

CS 401 - Software Engineering

Units: 4

Concepts and issues in the development of large software projects. Approaches to requirements, analysis, design, implementation, testing, and maintenance of high-quality software. Systems for software design,

management, documentation and testing such as UML, GIT, Javadoc and Junit. Programming in Java.

Lecture Units: 3; Lab Units: 1

Prerequisites: CS 301 with grade C- or better.

Equivalent Quarter Course: CS 4310.

Possible Instructional Methods: *Entirely On-ground, Entirely On-line, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F grading only.

CS 411 - Automata and Computation

Units: 3

Formal models of computation, languages and computability, deterministic and non-deterministic finite automata, regular expressions, pushdown automata, context-free languages, Pumping Lemmas, Turing machines, decidability, reducibility, and undecidable problems.

Prerequisites: CS 211 and MATH 225, both with grade C- or better.

Equivalent Quarter Course: CS 4170.

Possible Instructional Methods: *Entirely On-ground, Entirely On-line, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F grading only.

CS 413 - Analysis of Algorithms

Units: 3

Asymptotic notation, analysis framework, and efficiency classes, recurrence relations, algorithmic design methodology, searching and sorting algorithms, string matching, heaps and priority queues, doubly-linked and circularly-linked lists; trees and balancing; graph algorithms including breath-first and depth-first search, and hashing.

Prerequisites: CS/MATH 211 and CS 301.

Equivalent Quarter Course: CS 4245

Possible Instructional Methods: *Entirely On-ground, Entirely On-line, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F grading only.

CS 421 - Operating Systems

Units: 3

Principles of operating system design and implementation. Concurrent processes, interprocess communication, job and process scheduling, deadlock. Issues in memory management (virtual memory, segmentation, paging) and auxiliary storage management (file systems, directory structuring, protection mechanisms). Performance issues. Programming projects.

Prerequisites: CS 301 with grade C- or better.

Equivalent Quarter Course: CS 4560.

Possible Instructional Methods: *Entirely On-ground, Entirely On-line, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F grading only.

CS 431 - Database Architecture

Units: 3

Data models, data description and data manipulation languages. Schemas, query processing, database system architecture. Integrity, concurrency, and security techniques. Implementation of data models in a real database.

Prerequisites: CS 301 with grade C- or better.

Equivalent Quarter Course: CS 4660 or CS 4665.

Possible Instructional Methods: *Entirely On-ground, Entirely On-line, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F grading only.

CS 441 - Computer Networks

Units: 3

Computer network analysis and design. Fundamentals of data communications: media, transmission, encoding, error detection and handling, link control, packet switching. Network architecture and topology. Network, Transport, and Application layer protocols, services, design issues and performance. Programming assignments using TCP/IP.

Prerequisites: CS 301.

Equivalent Quarter Course: CS 3590 or CS 4590.

Possible Instructional Methods: *Entirely On-ground, Entirely On-line, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F grading only.

CS 453 - Mobile Programming

Units: 3

Current practices and trends in software design, development, and deployment of mobile applications and systems. Topics include modern mobile device application development and related sensor and system technologies.

Prerequisites: CS 301 with grade C- or better.

Equivalent Quarter Course: CS 4521.

Possible Instructional Methods: *Entirely On-ground, Entirely On-line, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F grading only.

CS 455 - Computer Graphics

Units: 3

Survey of computer graphics hardware, algorithms, techniques, and standards. Software development using current graphic frameworks.

Prerequisites: CS 301 with grade C- or better.

Equivalent Quarter Course: CS 4840.

Possible Instructional Methods: *Entirely On-ground, Entirely On-line, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F grading only.

CS 461 - Artificial Intelligence

Units: 3

Intelligence as computation, rational agent architecture, state spaces, breadth-first and depth-first search, heuristic search, A* algorithm, game playing, hill-climbing and optimization, neural networks, knowledge representation, production systems, machine learning techniques, introduction to Lisp and Scheme. Programming projects.

Prerequisites: CS 301 with grade C- or better.

Equivalent Quarter Course: CS 4810.

Possible Instructional Methods: *Entirely On-ground, Entirely On-line, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F grading only.

CS 471 - Security and Information Assurance

Units: 3

Fundamentals of network and computer security. Security services and mechanisms, models, cryptography, network and wireless security, digital forensics, security threats and vulnerabilities, risk analysis and management models, security attacks and policies, and legal and regulatory issues. Programming projects.

Prerequisites: CS 301 with grade C- or better.

Equivalent Quarter Course: CS 4245 or CS 4526 or CS 4527.

Possible Instructional Methods: *Entirely On-ground, Entirely On-line, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F grading only.

CS 490 - Independent Study

Units: 1-4

Independent study in computer science under the supervision of a member of the department faculty.

Prerequisites: Department consent and minimum 2.0 GPA.

Credit Restrictions: No more than 12 units of independent study may be applied in the major department and 8 units in other departments to a baccalaureate degree.

Equivalent Quarter Course: CS 4900.

Repeatability: May be repeated for credit with consent of instructor, for a maximum of 12 units.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

CS 497 - Topics in Computer Science

Units: 3

Selected relevant subjects in Computer Science technologies and applications.

Prerequisites: CS 301 with grade C- or better.

Possible Instructional Methods: *Entirely On-ground, Entirely On-line, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F grading only.

CS 498 - Internship

Units: 1-3

Supervised work experience in which student completes academic assignments integrated with off-campus paid or volunteer activities.

Prerequisites: Department consent, minimum 2.0 GPA., junior or senior standing and all of: CS 101, CS 201, CS 211, CS 221, CS 230, MATH 130, MATH 131, MATH 225, PHYS 135.

Credit Restrictions: A maximum of 3 units will be accepted toward the Computer Science major.

Equivalent Quarter Course: CS 3898.

Repeatability: May be repeated for credit, for a maximum of 6 units.

Possible Instructional Methods: *Entirely On-ground.*

Grading: CR/NC grading only.

Computer Science: Graduate

CS 601 - Advanced Algorithms

Units: 3

Design, analysis, and implementation of algorithms; asymptotic notation and efficiency classes; recurrence relations; advanced searching and sorting techniques; string matching; heaps and priority queues; linked structures; balanced and threaded trees; graph algorithms; heuristics; intractable problems; other advanced techniques. Programming projects.

Prerequisites: CS 401 and CS 413; or M.S. Computer Science major.

Credit Restrictions: Open to M.S. or B.S. Computer Science majors only.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

CS 603 - Advanced Software Engineering

Units: 3

Advanced concepts of object-oriented design; software development life-cycle models; software modeling; requirements gathering and analysis; pattern-based design of software; patterns as re-usable architecture; implementation of layered architecture code; software testing. Programming projects and review of literature.

Prerequisites: CS 401 or CS 601.

Credit Restrictions: Computer Science M.S. or B.S. students only.

Equivalent Quarter Course: CS 6310.

Possible Instructional Methods: *Entirely On-ground, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F grading only.

CS 605 - Information Coding and Cryptography

Units: 3

The study of data coding and cryptography. Topics may include: information content, Markov models, data compression codes, error correction and detection codes, symmetric and asymmetric key exchange, and other cryptographic techniques. Programming assignments and review of literature.

Prerequisites: CS 301 or CS 601.

Credit Restrictions: Computer Science M.S. or B.S. students only

Equivalent Quarter Course: CS 6715 and CS 6520.

Possible Instructional Methods: *Entirely On-ground, Entirely On-line, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F grading only.

CS 607 - Parallel Programming

Units: 3

Parallel programming fundamental principles and programming techniques. Topics may include: parallel architectures, principles of parallel algorithm design, programming shared-address space systems and scalable systems, non-numerical and numerical algorithms, GPU Programming, Visualization tools. Programming projects and review of literature.

Prerequisites: CS 421 or CS 621.

Credit Restrictions: Computer Science M.S. or B.S. students only.

Equivalent Quarter Course: CS 6575.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

CS 611 - Theory of Computation

Units: 3

Alphabets, strings and languages, regular languages and finite automata, context-free languages, grammars, context-sensitivity, Turing machines and Turing-Completeness, decidability, Church-Turing thesis, reducibility, time and space complexity classes, P versus NP, NP-Completeness and NP-Hard problems.

Prerequisites: CS 411 or M.S. Computer Science major.

Credit Restrictions: Computer Science M.S. or B.S. students only.

Equivalent Quarter Course: CS 6260.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

CS 615 - Compiler Design

Units: 3

Overview of compilation, lexical analysis, regular expressions, context-free grammars, top-down parsing and bottom-up parsing, semantic analysis, attribute grammars, ASTs, type-checking, intermediate representations, and constructing simple compilers. Additional topics may include register allocation, optimization, and code generation. Programming projects.

Prerequisites: CS 411 or CS 611.

Credit Restrictions: Computer Science M.S. or B.S. students only.

Equivalent Quarter Course: CS 6110.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

CS 621 - Operating Systems Design

Units: 3

Advanced concepts in operating systems theory and practice. Topics may include process synchronization, concurrency, resource management, security, performance evaluation, analytic models, human interfaces, and implementation issues. Programming assignments using open-source operating systems, and review of literature.

Prerequisites: CS 421 or M.S. Computer Science major.

Credit Restrictions: Computer Science M.S. or B.S. students only.

Equivalent Quarter Course: CS 6560.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

CS 623 - Cloud Computing

Units: 3

Cloud computing theory and protocols. Topics may include: Infrastructure/Platform/Software - as-a-service, cloud OS, architectures including Federated Clouds, principles of Virtualization platforms, security / privacy issues, Internet of things / data-intensive computing. Programming projects and review of literature.

Prerequisites: CS 421 or CS 621.

Credit Restrictions: Computer Science M.S. or B.S. students only.

Equivalent Quarter Course: CS 6593.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

CS 625 - Advanced Computer Architecture

Units: 3

Analysis and design of computer architecture. Topics may include: Processor: instruction set principles, building data path, Instruction Pipelining: data/control hazards, Memory Hierarchy: caches, virtual memory, data/thread-level parallelism, multicore and distributed processors. Programming assignments and review of literature.

Prerequisites: CS 421 or CS 621.

Credit Restrictions: Computer Science M.S. or B.S. students only.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

CS 631 - Database Systems

Units: 3

Design issues in current database systems. Topics may include: data models, storage management and access, distributed systems, query languages and query optimization, database integrity and security, encryption and decryption, concurrency control. Programming projects and review of literature.

Prerequisites: CS 431 or CS 601.

Credit Restrictions: Computer Science M.S. or B.S. students only.

Equivalent Quarter Course: CS 6660.

Possible Instructional Methods: *Entirely On-ground, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F grading only.

CS 641 - Advanced Computer Networks

Units: 3

Advanced concepts in computer network theory and practice. Specific emphasis on protocols, services, design issues and performance. Topics may include routing, software-defined networks, data-centers, overlay networks, and wireless technologies. Programming assignments using TCP/IP, and review of

literature.

Prerequisites: CS 441 or CS 621.

Credit Restrictions: Computer Science M.S. or B.S. students only.

Possible Instructional Methods: *Entirely On-ground, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F grading only.

CS 643 - Distributed Systems

Units: 3

Distributed Systems theory and semantics. Topics may include: temporal logic, proof of program properties, time (logical clocks), state (distributed snapshots), fault-tolerance, replication, rollback recovery, processes and threads, Remote Procedure Calls, file systems. Programming projects and review of literature.

Prerequisites: CS 441 or CS 621.

Credit Restrictions: Computer Science M.S. or B.S. students only.

Equivalent Quarter Course: CS 6580.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

CS 645 - Network Analysis and Design

Units: 3

The practice of network analysis and design. Topics may include estimation of traffic demand, requirements specification, topology design, network cost analysis, routing, wired and wireless technologies, design tools, and fault tolerance. Programming assignments and review of literature.

Prerequisites: CS 441 or CS 641.

Credit Restrictions: Computer Science M.S. or B.S. students only.

Equivalent Quarter Course: CS 6591.

Possible Instructional Methods: *Entirely On-ground, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F grading only.

CS 651 - Web Systems

Units: 3

Current practices and trends in software design, development, and deployment of web-based systems, with particular emphasis on e-commerce. Projects incorporating the latest technologies and techniques used by the Internet community. Review of literature.

Prerequisites: CS 351 and CS 401; or M.S. Computer Science major.

Credit Restrictions: Not open for credit to non-M.S. or non-B.S. Computer Science majors.

Equivalent Quarter Course: CS 6320.

Possible Instructional Methods: *Entirely On-ground, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F grading only.

CS 661 - Advanced Artificial Intelligence

Units: 3

Intelligence, rational agent design, state-spaces, search, heuristic functions and A*, game playing, knowledge representation, formal logic, reasoning, expert systems, machine learning paradigms including neural networks and genetic algorithms, introduction to Lisp and Scheme. Programming projects and review of literature.

Prerequisites: CS 411 or CS 611.

Credit Restrictions: Computer Science M.S. or B.S. students only.

Equivalent Quarter Course: CS 6810.

Possible Instructional Methods: *Entirely On-ground, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F grading only.

CS 663 - Computer Vision

Units: 3

Mathematical and algorithmic approaches to the problem of computing properties of the 3-D world from one or more digital images. Topics may include imaging, image processing, feature detection, calibration, stereopsis, motion, object recognition, tracking. Programming projects and review of literature.

Prerequisites: CS 401 or CS 601.

Credit Restrictions: Computer Science M.S. or B.S. students only.

Equivalent Quarter Course: CS 6825.

Possible Instructional Methods: *Entirely On-ground, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F grading only.

CS 665 - Human-Computer Interaction

Units: 3

Human-centered software design, interface paradigms, prototyping, performance models, usability testing, software logging, user observation, interaction styles, aesthetics, diversity and engagement, HCI in multimedia systems, collaboration, and communication systems. Programming projects and review of literature.

Prerequisites: CS 401 or CS 651.

Credit Restrictions: Computer Science M.S. or B.S. students only.

Equivalent Quarter Course: CS 4835.

Possible Instructional Methods: *Entirely On-ground, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F grading only.

CS 667 - Machine Learning

Units: 4

Introduction to machine learning with an emphasis on the underlying mathematics. Topics such as VC dimension, central limit theorem, gradient descent. Applications such as SVM and neural nets.

Prerequisites: MATH 230 and MATH 310; or M.S. Computer Science major.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

Cross-listed: MATH 667.

CS 671 - Cybersecurity

Units: 3

Security principles, scope and vulnerabilities of Cyberspace, the problem of identity, privacy, malicious software, data security, cryptography, authentication in distributed systems, e-mail security, network security, wireless security, offensive security. Programming assignments and review of literature.

Prerequisites: CS 335 or M.S. Computer Science major.

Credit Restrictions: Computer Science M.S. or B.S. students only.

Equivalent Quarter Course: CS 6525.

Possible Instructional Methods: *Entirely On-ground, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F grading only.

CS 681 - Digital Signal Processing

Units: 3

Digital Signal Processing techniques and applications. Topics may include: Discrete Time Signals and Systems, Discrete Time Networks, Input-Output Relationships, Discrete Time Fourier Transform, Discrete Fourier Transform, IIR and FIR filter design, Power Spectrum Computation. Programming projects and review of literature.

Prerequisites: CS 401 or CS 601.

Credit Restrictions: Computer Science M.S. or B.S. students only.

Equivalent Quarter Course: CS 6752.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

CS 683 - Computer Simulation

Units: 3

Introduction to construction and analysis of models by computer simulation. Study of discrete and/or continuous simulation languages. Applications to modeling technological, biological, industrial, and physical processes. Programming projects and review of literature.

Prerequisites: CS 401 or CS 601.

Credit Restrictions: Computer Science M.S. or B.S. students only.

Equivalent Quarter Course: CS 6870.

Possible Instructional Methods: *Entirely On-ground, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F grading only.

CS 690 - Independent Study

Units: 3

Selected research topics agreed on between the student and the faculty supervising the course. A plan of work completion must be approved prior to proceeding with the project. Progress reports, and a final report are required.

Prerequisites: Department consent and minimum 3.0 GPA.

Credit Restrictions: Computer Science M.S. students only.

Equivalent Quarter Course: CS 6900.

Repeatability: May be repeated for credit for a maximum of 6 units.

Possible Instructional Methods: *Entirely On-ground, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F grading only.

CS 692 - Capstone Examinations

Units: 3

A synthesis of important areas of Computer Science, culminating in comprehensive examinations covering three required courses in the Master's degree: Advanced Algorithms, Theory of Computation, and Operating System Design.

Prerequisites: Department consent, minimum 3.0 GPA and advancement to candidacy.

Credit Restrictions: Computer Science M.S. students only.

Equivalent Quarter Course: CS 6901.

Possible Instructional Methods: *Entirely On-ground, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: CR/NC grading only.

CS 693 - Capstone Project

Units: 1-4

Implementation of a substantial project in an advanced area of computer science. Supervision by a

departmental committee, at least one of whom must be a California State University East Bay Computer Science faculty member. Scientific literature research, a written report and an oral presentation is required.

Prerequisites: Department consent, minimum 3.0 GPA and advancement to candidacy.

Credit Restrictions: Computer Science M.S. students only.

Equivalent Quarter Course: CS 6899.

Repeatability: May be repeated for credit for a maximum of 4 units.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

CS 697A - Topics in Computer Science

Units: 3

Selected relevant subjects in Computer Science, either as a traditional course or as a survey of new literature. Programming assignments required.

Prerequisites: CS 401 or CS 601.

Credit Restrictions: Computer Science M.S. or B.S. students only.

Repeatability: May be repeated for credit for a maximum of 9 units.

Possible Instructional Methods: *Entirely On-ground, Entirely On-line, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F grading only.

CS 697B - Topics in Computer Networks

Units: 3

Selected relevant subjects in Computer Networks, either as a traditional course or as a survey of new literature. Programming assignments required.

Prerequisites: CS 441 or CS 641.

Credit Restrictions: Computer Science M.S. or B.S. students only.

Equivalent Quarter Course: Any one from: CS 6526, CS 6527, CS 6592, CS 6594, CS 6596.

Repeatability: May be repeated for credit for a maximum of 9 units.

Possible Instructional Methods: *Entirely On-ground, Entirely On-line, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F grading only.

CS 699 - Capstone Thesis

Units: 1-6

Development and completion of a formal research paper in an advanced area of computer science for submission to the department, which specifies its format. Supervision by a departmental committee, at least one of whom must be a California State University East Bay Computer Science faculty member. Scientific literature research, a written report and an oral presentation is required.

Prerequisites: Department consent, minimum 3.0 GPA and advancement to candidacy.

Credit Restrictions: Computer Science M.S. students only.

Equivalent Quarter Course: CS 6909.

Repeatability: May be repeated for credit for a maximum of 6 units.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

Construction Management

CMGT 101 - Introduction to Construction Management

Units: 3

Introduction to construction methods, materials, practices, contracts, codes, laws and trends. Also a study of professional ethics, management techniques and interaction with professional organizations and associations related to construction.

Equivalent Quarter Course: CMGT 1011.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

CMGT 142 - Construction Graphics and Plans Reading

Units: 2

Engineering drawing, computer-aided design, dimensioning, and tolerancing. Plan reading and specification review process. *Lecture Units: 1; Lab Units: 1*

Equivalent Quarter Course: ENGR 1420.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

CMGT 201 - Surveying

Units: 2

Construction surveying site layout techniques are studied. Benchmark, building lines, property lines, leveling and profiling are discussed in lecture with applied laboratory exercises. Broad-based background in interpreting plans. Typical plans for both residential and commercial buildings will be reviewed.

Lecture Units: 1; Lab Units: 1

Prerequisites: MATH 130.

Equivalent Quarter Course: CMGT 2011.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

CMGT 206 - Construction Materials

Units: 3

Introduction to the fundamentals of construction materials science, with emphasis on the origin, processing, properties, and use of materials such as steel, concrete, wood, and polymers.

Prerequisites: All of: CHEM 110, CMGT 101, PHYS 125.

Co-requisites: PHYS 126.

Equivalent Quarter Course: CMGT 2060.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

CMGT 207 - Construction Methods

Units: 3

Methods in construction of residential, commercial, and industrial buildings; site, excavation, foundation, structural work, framing, reinforced concrete, structural steel, masonry, roofing, and finishes.

Prerequisites: CMGT 206.

Equivalent Quarter Course: CMGT 2070.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

CMGT 310 - Statics and Strength of Materials

Units: 3

An intermediate introduction to Newtonian mechanics. Fundamental concepts of mechanics, including resultants of force systems, free-body diagrams, equilibrium of rigid bodies, and analyses of structures. Properties of structural materials primarily for building construction majors.

Prerequisites: PHYS 125.

Equivalent Quarter Course: CMGT 3101.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

CMGT 320 - Construction Law

Units: 3

Introduction to rules and regulations governing construction industry, including contractors licensing law, state lien laws, health and safety regulations, personnel relations and supervision, worker compensation, employment insurance, taxes, and dispute resolution.

Prerequisites: Construction Management major.

Equivalent Quarter Course: CMGT 3280.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

CMGT 325 - Electrical and Mechanical Systems in Construction

Units: 3

Introduction to current principles and practices in the application of mechanical and electrical systems. Electrical power system, lighting, wiring, and power distribution. Mechanical systems such as heating ventilating, air conditioning, water supply, drainage, and sewers.

Prerequisites: PHYS 126.

Equivalent Quarter Course: CMGT 3250 or CMGT 4250.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

CMGT 340 - Construction Cost Estimating

Units: 3

Topics related to construction project cost from the conceptual phase to full implementation and control. Use of computer tools for construction cost estimating. *Lecture Units: 2; Lab Units: 1*

Prerequisites: Department consent.

Equivalent Quarter Course: CMGT 4400.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

CMGT 345 - Building Codes and Commissioning

Units: 3

Building Codes for structural, mechanical, electrical, and plumbing. Building safety and accessibility. Energy efficiency (Title 24) and commissioning.

Prerequisites: CMGT 207.

Equivalent Quarter Course: CMGT 3450.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

CMGT 350 - Construction Project Planning, Scheduling and Control

Units: 4

Planning, scheduling, and control of construction projects. Application of project planning techniques such as CPM and PERT. Use of computer tools for project scheduling.

Prerequisites: CMGT 207.

Equivalent Quarter Course: CMGT 4200.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

CMGT 360 - Soil Mechanics and Building Foundations

Units: 3

Engineering properties of soils and rocks such as permeability, compressibility and shear strength. Site evaluation for building foundations, dams, tunnels and highways. Slope stability.

Prerequisites: CMGT 310.

Equivalent Quarter Course: CMGT 3600.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

CMGT 398 - Internship

Units: 1-3

Introduction to the internship experience; integration of the academic program with career aspirations; emphasis on internship readiness and preparation for professional success.

Prerequisites: Department consent and minimum 2.0 GPA.

Credit Restrictions: No more than 3 units may be applied to the Construction Management major.

Equivalent Quarter Course: CMPT 3898.

Repeatability: May be repeated with department consent for a maximum of 6 units.

Possible Instructional Methods: *Entirely On-ground.*

Grading: CR/NC grading only.

CMGT 410 - Building Information Modeling

Units: 3

An introduction to Building Information Modeling (BIM) for design error detection and construction process improvement.

Prerequisites: CMGT 142.

Equivalent Quarter Course: CMGT 4100.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

CMGT 430 - Environmental Issues and Green Building

Units: 3

Fundamental understanding of environmental issues and sustainability. Issues such as land use, energy efficiency, water use, indoor environmental quality, life cycle analysis, and construction waste disposal. High performance construction and green building assessment systems.

Prerequisites: CMGT 207.

Equivalent Quarter Course: CMGT 4300.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

CMGT 440 - Construction Project Management

Units: 3

Project management concepts for construction; topics such as roles and responsibilities, delivery methods, labor relations and supervision, administrative systems, project control, computer tools for project management, documentation, quality management, commissioning, and process improvement.

Prerequisites: Department consent.

Equivalent Quarter Course: CMGT 3400.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

CMGT 480 - Construction Safety

Units: 3

Introduction to the requirements of the Occupational Safety and Health Act and other related federal and state legislations as applied to the building construction industry. Standards for accident prevention, hazard identification, and responsibility for compliance emphasized.

Equivalent Quarter Course: CMGT 4800

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

CMGT 490 - Independent Study

Units: 1-3

Selected research topics in construction management, agreed on between the student and the faculty supervising the course. Work plan approval required prior to starting a project. Progress reports, a final report, and a final presentation are required.

Prerequisites: Department consent and minimum 2.0 GPA.

Credit Restrictions: No more than 12 units of independent study may be applied in the major department and 8 units in other departments to a baccalaureate degree.

Equivalent Quarter Course: CMGT 4900

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

CMGT 493 - Senior Project

Units: 4

Topics such as construction ethics, teamwork, and project partnering will be covered. Also a real-world project request for proposal (RFP) will be assigned and the planning for the response is initiated.

Development of alternative solutions and economic analyses. Weekly submission of proposal sections according to plan. Multiple written reports and oral presentations revised as per faculty critique.

Equivalent Quarter Course: CMGT 4620.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

CMGT 497 - Issues in Construction Management

Units: 3

Readings, discussion, and research on contemporary and/or significant issues in construction management.

Prerequisites: Department consent.

Equivalent Quarter Course: CMGT 4990.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

Construction Management: Graduate

CMGT 610 - BIM and Advanced Technologies

Units: 3

Fundamentals of Building Information Modelling (BIM), introduction to applications for 3-D, 4-D and 5-D CAD. Coordination among the project stakeholders, clash detection, basics of sensing and information technology.

Prerequisites: Admission to M.S. Construction Management program.

Equivalent Quarter Course: CMGT 6100.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

CMGT 620 - Legal Issues in Construction Management

Units: 3

Discussion of construction contracts including legal issues arising from design and construction services such as claims and dispute resolution, liability, and state law pertaining to construction.

Prerequisites: Admission to M.S. Construction Management program.

Equivalent Quarter Course: CMGT 6200.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

CMGT 630 - Environmental Issues and Sustainable Construction

Units: 3

Fundamentals of sustainability and the greenbelt environment. Issues such as integrated design, delivery methods for sustainable projects, commissioning, greenbuilding assessment methods, and life cycle analysis are discussed.

Prerequisites: Admission to M.S. Construction Management program.

Equivalent Quarter Course: CMGT 6300.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

CMGT 640 - Cost Estimating for Construction Management

Units: 3

Issues related to construction project cost from the conceptual phase to full implementation. Use of computer aided tools for construction cost estimating.

Prerequisites: Admission to M.S. Construction Management program.

Equivalent Quarter Course: CMGT 6400.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

CMGT 650 - Construction Project Management, Planning, and Scheduling

Units: 3

Application of project planning techniques such as network analysis and CPM. Project scheduling, forecasting, and updating required for project cost and scheduling control. Familiarization with the latest software for construction scheduling.

Prerequisites: Admission to M.S. Construction Management program.

Equivalent Quarter Course: CMGT 6500.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

CMGT 660 - Cost Accounting, Control and Reporting in Construction

Units: 3

Introduction to project and company construction financial management. Discussion of financial resources, managing cost and profit, cash flows, and making financial decisions

Prerequisites: Admission to M.S. Construction Management program.

Equivalent Quarter Course: CMGT 6600.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

CMGT 670 - Construction Enterprise and Risk Management

Units: 3

Quantitative techniques for risk-based analysis in construction, risk elicitation and mitigation, enterprise risk assessment and management, decision making under uncertainty.

Prerequisites: Admission to M.S. Construction Management program.

Equivalent Quarter Course: CMGT 6700.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

CMGT 675 - Temporary Structures in Construction

Units: 3

Study of the construction and design, as well as professional, business, safety, and legal aspects of different temporary structures used to support construction of the primary structures.

Prerequisites: Admission to M.S. Construction Management program.

Possible Instructional Methods: *Entirely On-ground, Entirely On-line.*

Grading: A-F grading only.

CMGT 680 - Construction Safety and Health

Units: 3

Strategic safety management techniques, quantitative tools to monitor safety performance, understanding the Occupational Safety and Health Act, workers compensation laws, and other related federal and state legislation as applied to the building construction industry.

Prerequisites: Admission to M.S. Construction Management program.

Equivalent Quarter Course: CMGT 6800.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

CMGT 685 - Special Topics in Construction Management

Units: 3

Selected topics that cover current issues and latest innovations in construction management.

Prerequisites: Admission to M.S. Construction Management program.

Equivalent Quarter Course: CMGT 6850.

Repeatability: May be repeated for a maximum of 6 units when content varies.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

CMGT 690 - Independent Study

Units: 3

Selected research topics agreed on between the student and the faculty supervising the course. A plan of work completion must be approved prior to proceeding with the project. Progress reports, a final report, and presentation is required.

Prerequisites: Department consent and minimum 3.0 GPA.

Equivalent Quarter Course: CMGT 6900.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

CMGT 693A - Applied Research in Construction Management

Units: 3

An integrative capstone experience in which students conduct a literature search, develop a research proposal, complete a capstone graduate individual project and write a comprehensive project report encompassing areas covered in their course work.

Prerequisites: Department consent, completion of University Writing Skills Requirement (UWSR) and a minimum of 6 courses from: CMGT 610, CMGT 620, CMGT 630, CMGT 640, CMGT 650, CMGT 660, CMGT 670, CMGT 680, CMGT 685.

Credit Restrictions: Not open to students who have taken CMGT 693A or the comprehensive exam.

Equivalent Quarter Course: CMGT 6880.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

CMGT 693B - Master's Project Capstone

Units: 3

Capstone project where the knowledge gained in the curriculum is applied to a real world construction project.

Prerequisites: Department consent, completion of University Writing Skills Requirement (UWSR) and a minimum of 6 courses from: CMGT 610, CMGT 620, CMGT 630, CMGT 640, CMGT 650, CMGT 660, CMGT 670, CMGT 680, CMGT 685.

Credit Restrictions: Not open to students who have taken CMGT 693A or the comprehensive exam.

Equivalent Quarter Course: CMGT 6899.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

CMGT 697 - Issues in Construction Management

Units: 3

Readings, discussion, and research on contemporary and/or significant issues in construction management.

Prerequisites: Department consent.

Equivalent Quarter Course: CMGT 6999.

Repeatability: May be repeated for credit for a maximum of 6 units when content varies

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

Criminal Justice

CRJ 101 - Introduction to Criminal Justice

Units: 3

Survey of the various components of the American criminal justice system, emphasizing police, courts and corrections. An historical, analytical overview.

Equivalent Quarter Course: CRJA 2500.

Possible Instructional Methods: *Entirely On-line, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F grading only.

CRJ 210 - Elementary Criminal Law

Units: 3

Introduces students to the nature and function of criminal law in the United States and the principles and rules underlying its application. Covers the classification of criminal activity and the applicability of criminal defenses.

Equivalent Quarter Course: CRJA 2100.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

CRJ 220 - Basic Criminal Investigation

Units: 3

The principles and methods of investigation used to acquire and to disseminate information about crimes.

Equivalent Quarter Course: CRJA 2200.

Possible Instructional Methods: *Entirely On-line, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F grading only.

CRJ 230 - Police Community Relations

Units: 3

The relationship between the criminal justice systems and the public with particular emphasis on police relations with diverse communities and minorities.

Equivalent Quarter Course: CRJA 2600.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

CRJ 300 - Crime and Criminal Justice in the Media and Cinema

Units: 3

Introduces students to types of crime and the inter-workings of criminal justice through the media and cinema. Students will examine the ways these media depict due process, victims and offenders, and criminal justice policy.

Equivalent Quarter Course: CRJA 3350.

Possible Instructional Methods: *Entirely On-line, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F or CR/NC (student choice).

CRJ 310 - Corrections and Criminal Justice

Units: 3

Introduction to the evolution of the correctional system, theories of punishment, and treatment. Emphasis placed on policies, practices, legal issues, and controversies within the correctional system. Incarceration in jails and prisons, capital punishment, and probation and parole are discussed.

Equivalent Quarter Course: CRJA 3100.

Possible Instructional Methods: *Entirely On-line, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F grading only.

CRJ 320 - Research Methods in Criminal Justice

Units: 3

The application of scientific research methods to selected data and statistics in justice administration. Use of scientific methodology in interpreting crime and correctional data.

Prerequisites: STAT 100.

Equivalent Quarter Course: CRJA 3200.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

CRJ 330 - Crime Prevention and Control

Units: 3

Examines the concepts of planning and implementation of crime prevention and control systems. The role of security in urban society and civilian involvement in crime prevention.

Equivalent Quarter Course: CRJA 3300.

Possible Instructional Methods: *Entirely On-line, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F grading only.

CRJ 340 - Advanced Criminal Investigation

Units: 3

A continuation of CRJ 220. The exploration of investigative problems in major crimes. Analysis of role of criminal investigator and the legal use of scientific aids to investigation. Case history, examination and analysis.

Prerequisites: CRJ 220.

Equivalent Quarter Course: CRJA 3400.

Possible Instructional Methods: *Entirely On-ground, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F grading only.

CRJ 345 - Animal Cruelty and the Criminal Justice System

Units: 3

An overview of the different types of animal cruelty, global perspectives of the treatment of animals, and criminal justice response to animal cruelty. Additionally, this class addresses domestic and transnational legislative trends related to animal cruelty.

Equivalent Quarter Course: CRJA 4500.

Possible Instructional Methods: *Entirely On-ground, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F grading only.

CRJ 350 - Criminal Identification

Units: 3

Personal identification in criminal and civil investigation. Photography in criminal identifications, classification and filing of fingerprints. Handwriting identification of the unknown dead and skeletal remains.

Equivalent Quarter Course: CRJA 3500.

Possible Instructional Methods: *Entirely On-ground, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F or CR/NC (student choice).

CRJ 360 - Police Organization and Management

Units: 3

Application of principles of organization and management to the study of police agencies and crime investigation; relationship of police agencies to other public agencies.

Equivalent Quarter Course: CRJA 3610.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

CRJ 370 - Ethics and Criminal Justice Administration

Units: 3

The application of ethical theories and philosophical perspectives to the study and analysis of ethical decision-making in the criminal justice system.

Equivalent Quarter Course: CRJA 3700.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

CRJ 375 - Family Violence and the Criminal Justice System

Units: 3

An introduction to the types of violence occurring within the family unit. Potential causes of family violence, impact on the individual and community, and criminal justice response are discussed.

Equivalent Quarter Course: CRJA 3750.

Possible Instructional Methods: *Entirely On-ground, Entirely On-line, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F or CR/NC (student choice).

CRJ 380 - Survey of Forensic Science

Units: 3

The forensic comparative process; studies of microscopic characteristics of various types of physical evidence. Topics include firearms and tool identification, impression evidence, technical photography and preparation of laboratory findings for court.

Equivalent Quarter Course: CRJA 3800.

Possible Instructional Methods: *Entirely On-ground, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F grading only.

CRJ 398 - Internship

Units: 1-3

Introduction to the internship experience; integration of the academic program with career aspirations;

emphasis on internship readiness and preparation for professional success.

Prerequisites: Department consent and minimum 2.0 GPA.

Credit Restrictions: No more than 6 units of CRJ 398 and/or CRJ 415 may be applied to electives in the Criminal Justice major.

Equivalent Quarter Course: CRJA 3898.

Repeatability: May be repeated with department consent for a maximum of 6 units.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

CRJ 400 - Sex Crime Investigation

Units: 3

Theoretical foundations related to sexual crimes. Review of the basic skills necessary to investigate sexual assault cases, collect and preserve physical evidence, interview and interrogate subjects and victims, and successfully prepare cases for presentation.

Equivalent Quarter Course: CRJA 4124.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

CRJ 410 - Advanced Policing Innovations

Units: 3

Examination and analysis of major policing innovations and their implementation in the last few decades from team-policing to community policing to intelligence-led policing. Includes strengths and weaknesses and the driving forces, facilitators, and obstacles of translating innovations into police practices.

Equivalent Quarter Course: CRJA 4100.

Possible Instructional Methods: *Entirely On-ground, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F or CR/NC (student choice).

CRJ 415 - Internship in Criminal Justice

Units: 3

Informed practical experience in a department-approved criminal justice agency (public or private). Academic assignments integrated with volunteer or paid activities.

Equivalent Quarter Course: CRJA 4128.

Possible Instructional Methods: *Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F grading only.

CRJ 420 - White Collar Crime

Units: 3

Explores criminal activity in business and corporate enterprise, organization, and the professions. Students will learn criminological theories regarding the causes and control of white collar crime.

Equivalent Quarter Course: CRJA 4200.

Possible Instructional Methods: *Entirely On-ground, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F or CR/NC (student choice).

CRJ 425 - Transnational Crime

Units: 3

Examines transnational crimes and international responses. Topics include but not limited to organized crime, environmental crime, terrorism, trafficking in drugs, weapons, and persons. Analysis of transnational crime control, and global organized crime issues.

Equivalent Quarter Course: CRJA 4130.

Possible Instructional Methods: *Entirely On-ground, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F or CR/NC (student choice).

CRJ 430 - Victimology & Crime Victims

Units: 3

The criminal justice system from the perspective of the victim and the victim's needs/concerns. Various facets of victimology including: victimization data, victim compensation, psychological impacts of crime on victims, and the victim rights movement are discussed.

Equivalent Quarter Course: CRJA 4123.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

CRJ 435 - Prejudice, Violence, and Hate Crimes

Units: 3

Explores the characteristics, prevalence, causes, penalties, and constitutional issues regarding hate crimes and hate speech. Examines the history, social contexts, and political controversies surrounding hate crimes and components of prejudice, justice, and violence as it relates to marginalized groups.

Equivalent Quarter Course: CRJA 4330.

Possible Instructional Methods: *Entirely On-line, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F or CR/NC (student choice).

CRJ 450 - Women in Criminal Justice

Units: 3

Analysis of women/girls and crime. Examines how gender impacts pathways into the criminal justice system, types of offending, victimization, and women/girls' experience of incarceration. The role of female and male criminal justice professional in interfacing with women/girls.

Equivalent Quarter Course: CRJA 4125.

Possible Instructional Methods: *Entirely On-line, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F or CR/NC (student choice).

CRJ 455 - Youth Crime and Empowerment

Units: 3

Examines the impact of trauma on child development, the factors that influence youth involvement in elicit behaviors, compares youth empowerment strategies with traditional modalities, examines programs, and explores developmental differences among diverse youth.

Equivalent Quarter Course: CRJA 4530.

Possible Instructional Methods: *Entirely On-ground, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F or CR/NC (student choice).

CRJ 460 - Crime Theory

Units: 3

In-depth analysis of the theories of criminal behavior, examining major social, psychological and biological theories of crime causation. Examine historical origins of crime theories and current applications of criminological theories to contemporary crime issues and offender treatment and rehabilitation.

Equivalent Quarter Course: CRJA 4127.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

CRJ 465 - Drugs, Law, and Society: Race, Gender, and U.S. Drug Policy

Units: 3

In-depth examination of drug policy on the criminal justice system and diverse communities. Impact of historical "drug scares," the war on drugs, and resulting mass incarceration. Drug policy reform such as decriminalization, legalization, harm reduction, drug courts.

Equivalent Quarter Course: CRJA 4710.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

CRJ 470 - Community Based Corrections

Units: 3

Role of community-based alternatives to incarceration. Examines theories, processes, policies, and practices involved in community based programs. Topics include reentry, pre-sentence investigations, community supervision, juvenile justice, the use of electronic monitoring, community service, and restitution.

Equivalent Quarter Course: CRJA 4700.

Possible Instructional Methods: *Entirely On-ground, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F grading only.

CRJ 475 - Restorative Justice

Units: 3

Critical look at how restorative justice responds to crime by holding offenders accountable for harm committed, repairing harm to victims and community, and promoting skills in offenders to prevent crime recurrence.

Equivalent Quarter Course: CRJA 4730.

Possible Instructional Methods: *Entirely On-ground, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F grading only.

CRJ 480 - Criminal Law and Courts

Units: 3

Explores the structure and functions of the criminal courts and their practical operation. It follows criminal court cases from inception to conclusion, focusing on the responsibilities of legal actors, rights and protections afforded the defendant, and systemic issues.

Equivalent Quarter Course: CRJA 4770.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

CRJ 483 - Seminar in Forensic Research

Units: 1

Criminal justice aspects of forensic research. Current issues in forensic science based on scientific, legal, and criminal justice concerns.

Equivalent Quarter Course: CRJA 4830.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

CRJ 490 - Independent Study

Units: 1-3

Topic of study will be determined on case-by-case basis. Students may apply no more than 12 units of independent study in the major department and 8 units in other departments to a baccalaureate degree.

Prerequisites: Department consent and minimum 2.0 GPA.

Equivalent Quarter Course: CRJA 4900.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

CRJ 495 - Practicum in Criminal Justice

Units: 3

Application and synthesis of theory, research and policy related to issues in the criminal justice system.

Equivalent Quarter Course: CRJA 4126.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

CRJ 497 - Issues in Criminal Justice

Units: 3

Readings, discussion, and research on contemporary and/or significant topics in criminal justice.

Equivalent Quarter Course: CRJA 3999.

Repeatability: May be repeated for credit for a maximum of 6 units.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

Dance

DANC 101 - Dance for All Bodies and Abilities

Units: 3 ; G.E./G.R. Area: C1

Embodied study of personal identity, community and body image. Role of the arts in understanding gender, race, sexual orientation, disability, age, and culture. The creative expression of themes of social change through dance. Composition exercises that include theatre and music.

Equivalent Quarter Course: DANC 1201; DANC 1201 is also equivalent to DANC 102 and THEA 100

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

G.E./G.R. Area Satisfied: *C1 - Lower Division Arts*

DANC 102 - World Dance: Tradition and Change

Units: 3 ; G.E./G.R. Area: C1

The human search for meaning in ritual dances that prepare us for weddings, social dances that reinforce cultural order, and artistic dance that expresses the human condition. The story of who we are and who we may become. *Lecture Units: 2; Activity Units: 1*

Equivalent Quarter Course: DANC 1202.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

G.E./G.R. Area Satisfied: *C1 - Lower Division Arts*

DANC 110 - Contemporary Ballet I

Units: 1 ; G.E./G.R. Area: E

Introduction to contemporary ballet techniques, open to students of all experience levels, body sizes and shapes and abilities/disabilities. Warm-ups, barre exercises, center exercises, terminology and injury prevention.

Equivalent Quarter Course: DANC 1191 or DANC 1192 or DANC 1193.

Repeatability: May be repeated once for credit, for a total of 2 units.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

G.E./G.R. Area Satisfied: *E - Lifelong Learning and Self-Development*

DANC 111 - Hip Hop Dance I

Units: 1 ; G.E./G.R. Area: E

Introduction to practical skills that will increase physical aptitude, historical knowledge, and aesthetic sensibilities of hip hop dance. Open to all body types and abilities/disabilities.

Equivalent Quarter Course: DANC 1131 or DANC 1132 or DANC 1133.

Repeatability: May be repeated for credit for a maximum of 2 units.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

G.E./G.R. Area Satisfied: *E - Lifelong Learning and Self-Development*

DANC 113 - Jazz Dance I

Units: 1 ; G.E./G.R. Area: E

Introduction to practical skills that will increase physical aptitude, historical knowledge, and aesthetic sensibilities of jazz dance. Open to all body types and abilities/disabilities.

Equivalent Quarter Course: DANC 1171 or DANC 1172 or DANC 1173.

Repeatability: May be repeated for credit for a maximum of 2 units.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

G.E./G.R. Area Satisfied: *E - Lifelong Learning and Self-Development*

DANC 114 - Modern Jazz Dance I

Units: 1 ; G.E./G.R. Area: E

Introduction to practical skills that will increase physical aptitude, historical knowledge, and aesthetic sensibilities of modern jazz dance. Open to all body types and abilities/disabilities.

Repeatability: May be repeated for credit for a maximum of 2 units.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

G.E./G.R. Area Satisfied: *E - Lifelong Learning and Self-Development*

DANC 115 - Modern Dance I

Units: 1 ; G.E./G.R. Area: E

Introduction to practical skills that will increase physical aptitude, historical knowledge, and aesthetic sensibilities of modern dance. Open to all body types and abilities/disabilities.

Equivalent Quarter Course: DANC 1141 or DANC 1142 or DANC 1143.

Repeatability: May be repeated for credit for a maximum of 2 units.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

G.E./G.R. Area Satisfied: *E - Lifelong Learning and Self-Development*

DANC 116 - Dance Partnering I

Units: 1 ; G.E./G.R. Area: E

Embodied study of partner dances. All experience levels. Techniques drawing from Contact Improvisation, Ballroom Dance, Social Dance, Athletics, and Martial Arts. Effective communication skills between dance partners.

Repeatability: May be repeated for credit for a maximum of 2 units.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

G.E./G.R. Area Satisfied: *E - Lifelong Learning and Self-Development*

DANC 117 - Rhythm Tap Dance

Units: 1 ; G.E./G.R. Area: E

Movement technique from the rich history and evolution of tap dance. Some discussion of socio-political and cultural challenges, including issues of race, gender, class inequality, and marginalization, that continue to influence style. Special equipment discussed first meeting--tap shoes.

Equivalent Quarter Course: Any one from: DANC 1151, DANC 1152, DANC 1153, DANC 2151, DANC 2152, DANC 2153.

Repeatability: May be repeated for credit for a maximum of 2 units.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

G.E./G.R. Area Satisfied: *E - Lifelong Learning and Self-Development*

DANC 210 - Contemporary Ballet II

Units: 1 ; G.E./G.R. Area: E

Continued development and strengthening of practical skills that will increase physical aptitude, historical knowledge, and aesthetic sensibilities of ballet. Intermediate level. Open to all body types and abilities/disabilities.

Equivalent Quarter Course: DANC 2191 or DANCE 2192 or DANCE 2193.

Repeatability: May be repeated once for a total of 2 units.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

G.E./G.R. Area Satisfied: *E - Lifelong Learning and Self-Development*

DANC 211 - Hip Hop Dance II

Units: 1 ; G.E./G.R. Area: E

Continued development and strengthening of practical skills that will increase physical aptitude, historical knowledge, and aesthetic sensibilities of hip hop dance. Intermediate level. Open to all body types and abilities/disabilities.

Equivalent Quarter Course: DANC 2131 or DANC 2132 or DANC 2133.

Repeatability: May be repeated once for a total of 2 units.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

G.E./G.R. Area Satisfied: *E - Lifelong Learning and Self-Development*

DANC 212 - African Dance

Units: 1 ; G.E./G.R. Area: E

Developing, strengthening and applying practical skills that will increase physical aptitude, historical knowledge, and aesthetic sensibilities of African dance. Open to all body types and abilities/disabilities.

Equivalent Quarter Course: DANC 1019.

Repeatability: May be repeated for credit for a maximum of 2 units.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

G.E./G.R. Area Satisfied: *E - Lifelong Learning and Self-Development*

DANC 213 - Jazz Dance II

Units: 1 ; G.E./G.R. Area: E

Continued development and strengthening of practical skills that will increase physical aptitude, historical knowledge, and aesthetic sensibilities of jazz dance. Intermediate level. Open to all body types and abilities/disabilities.

Equivalent Quarter Course: DANC 2171 or DANC 2172 or DANC 2173.

Repeatability: May be repeated once for a total of 2 units.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

G.E./G.R. Area Satisfied: *E - Lifelong Learning and Self-Development*

DANC 214 - Modern Jazz Dance II

Units: 1 ; G.E./G.R. Area: E

Continued development and strengthening of practical skills that will increase physical aptitude, historical knowledge, and aesthetic sensibilities of modern jazz dance. Intermediate level. Open to all body types and abilities/disabilities.

Repeatability: May be repeated once for a total of 2 units.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

G.E./G.R. Area Satisfied: *E - Lifelong Learning and Self-Development*

DANC 215 - Modern Dance II

Units: 1 ; G.E./G.R. Area: E

Continued development and strengthening of practical skills that will increase physical aptitude, historical knowledge, and aesthetic sensibilities of modern dance. Intermediate level. Open to all body types and abilities/disabilities.

Equivalent Quarter Course: DANC 2141 or DANC 2142 or DANC 2143.

Repeatability: May be repeated once for credit for a total of 2 units.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

G.E./G.R. Area Satisfied: *E - Lifelong Learning and Self-Development*

DANC 216 - Dance Partnering II

Units: 1 ; G.E./G.R. Area: E

Partner dancing for those with some experience. Level evaluated at first meeting. Techniques drawing from Contact Improvisation, Ballroom Dance, Social Dance, Athletics, and Martial Arts. Effective communication skills between dance partners. Includes study and practice of choreographed partnering movement.

Repeatability: May be repeated once for credit for a maximum of 2 units.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

G.E./G.R. Area Satisfied: *E - Lifelong Learning and Self-Development*

DANC 217 - Musical Theater Dance

Units: 1 ; G.E./G.R. Area: E

Movement technique from the rich history and evolution of musical theatre dance. Some discussion of socio-political and cultural challenges, including issues of race, gender, class inequality, and marginalization, that continue to influence style.

Strongly Recommended Preparation: At least one term of Jazz Dance.

Equivalent Quarter Course: Any one from: DANC 2121, DANC 2122, DANC 2123, DANC 2124, DANC 2125.

Repeatability: May be repeated once for credit for a total of 2 units.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

G.E./G.R. Area Satisfied: *E - Lifelong Learning and Self-Development*

DANC 233 - Street to Stage: History of Hip Hop Dance

Units: 3 ; G.E./G.R. Area: C2; Diversity

History and evolution of Hip Hop dance. Cultural influences; societal and artistic significance; and essential aspects of this contemporary dance form that developed across diverse societies and cultures.

Lecture Units: 2; Activity Units: 1

Equivalent Quarter Course: DANC 1202 or DANC 3300.

Possible Instructional Methods: *Entirely On-ground, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F or CR/NC (student choice).

G.E./G.R. Area Satisfied: *C2 - Lower Division Humanities, Overlay - Diversity*

DANC 234 - Tap and Musical Theatre Dance on Stage and Film

Units: 3 ; G.E./G.R. Area: C1; Diversity

The evolution of Rhythm Tap and Musical Theatre Dance. History that reveals the sociopolitical and cultural challenges, including the marginalization of these art forms, as well as issues of race, gender, and class inequality experienced by their practitioners. *Lecture Units: 2; Activity Units: 1*

Equivalent Quarter Course: DANC 1202 or DANC 3300.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

G.E./G.R. Area Satisfied: *C1 - Lower Division Arts, Overlay - Diversity*

DANC 273 - Dance on Camera

Units: 3 ; G.E./G.R. Area: C2

Translating seen and found meaning in movement to the screen. The history of screendance; basics of digital video pre-production (research and planning); production (shooting); post-production (editing); and distribution. A roadmap for creating your own dance videos. *Discussion Units: 1; Activity Units: 2*

Strongly Recommended Preparation: Previous experience in dance or video production/editing.

Equivalent Quarter Course: DANC 3330.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

G.E./G.R. Area Satisfied: *C2 - Lower Division Humanities*

DANC 311 - Hip Hop Dance III

Units: 1

Strengthening and mastering practical skills that will increase physical aptitude, historical knowledge, and aesthetic sensibilities of the art form. Open to all body types and abilities/disabilities.

Equivalent Quarter Course: DANC 4131 or DANC 4132 or DANC 4133.

Repeatability: May be repeated for credit for a maximum of 4 units.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

DANC 313 - Jazz Dance III

Units: 1

Strengthening and mastering practical skills that will increase physical aptitude, historical knowledge, and aesthetic sensibilities of the art form. Open to all body types and abilities/disabilities.

Equivalent Quarter Course: DANC 4171 or DANC 4172 or DANC 4173.

Repeatability: May be repeated for credit for a maximum of 4 units.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

DANC 314 - Modern Jazz Dance III

Units: 1

Strengthening and mastering practical skills that will increase physical aptitude, historical knowledge, and aesthetic sensibilities of the art form. Open to all body types and abilities/disabilities.

Repeatability: May be repeated for credit for a maximum of 4 units.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

DANC 315 - Modern Dance III

Units: 1

Strengthening and mastering practical skills that will increase physical aptitude, historical knowledge, and aesthetic sensibilities of the art form. Open to all body types and abilities/disabilities.

Equivalent Quarter Course: DANC 4141 or DANC 4142 or DANC 4143.

Repeatability: May be repeated for credit for a maximum of 4 units.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

DANC 316 - Advanced Dance Partnering

Units: 1

Partner dancing for experienced dancers. Level evaluated at first meeting. Techniques drawing from Contact Improvisation, Ballroom Dance, Social Dance, Athletics, and Martial Arts. Effective communication skills between dance partners. Includes study and practice of choreographed movement.

Strongly Recommended Preparation: One semester of Modern or Jazz dance or equivalent experience.

Co-requisites: DANC 216.

Repeatability: May be repeated for credit for a maximum of 2 units.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

DANC 331 - Sex, Race, and Body Politics in Dance

Units: 3 ; G.E./G.R. Area: C4; Diversity

Exploring questions of identity: "Who am I?" and "How can we live consciously in a diverse society?" Examples from dance and performance. Focus on groups marginalized because of race, gender, sexual orientation, age, body size, disability, lifestyle. Arts for empowerment.

Prerequisites: Completion of GE areas A1, A2, A3 and B4.

Equivalent Quarter Course: DANC 3300.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

G.E./G.R. Area Satisfied: *C4 - Upper Division Arts or Humanities, Overlay - Diversity*

DANC 332 - World Dance and Cultures

Units: 3 ; G.E./G.R. Area: C4

Meaning of dance traditions around the world. From ritual dances of weddings and wars, to social dances reinforcing cultural order, to artistic performances expressing the human condition, dance tells us who we have been, are, and may become. *Lecture Units: 2; Activity Units: 1*

Prerequisites: Completion of GE areas A1, A2, A3 and B4.

Equivalent Quarter Course: DANC 3252.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

G.E./G.R. Area Satisfied: *C4 - Upper Division Arts or Humanities*

DANC 341 - Dance for Children

Units: 3 ; G.E./G.R. Area: C4

Theory and techniques for developing movement and expressive capabilities in children through dance activities. Opportunities to create and share lesson plans, observe instruction, and work with children.

Lecture Units: 2; Activity Units: 1

Prerequisites: Completion of GE areas A1, A2, A3 and B4.

Equivalent Quarter Course: DANC 3235.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

G.E./G.R. Area Satisfied: *C4 - Upper Division Arts or Humanities*

DANC 342 - The Dance Experience

Units: 3

Study of dance theory and development; dance as a creative form and process; exploration of various dance forms, techniques and methods. Opportunities to create and share lesson plans. *Lecture Units: 2;*

Activity Units: 1

Equivalent Quarter Course: DANC 3241.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

DANC 345 - How to Watch Dance

Units: 3 ; G.E./G.R. Area: C4

How to watch and interpret a performance of dance. The audience experience. What the dancing, choreography, scenery, costume, lights, sound, text and other production elements add to understanding an issue, theme or poetic expression of the human experience.

Prerequisites: Completion of GE areas A1, A2, A3 and B4.

Possible Instructional Methods: *Entirely On-ground, Entirely On-line, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F or CR/NC (student choice).

G.E./G.R. Area Satisfied: *C4 - Upper Division Arts or Humanities*

DANC 360 - Inclusive Interdisciplinary Ensemble Performance

Units: 2

Create and perform an evening-length dance/theatre/music performance. Focus on inclusive method,

rigorous technique, accessibility, experimental inquiry, risk-taking, and embracing diversity.

Co-requisites: THEA 381 or THEA 382, only one per semester.

Equivalent Quarter Course: DANC 3463 or DANC 3466.

Repeatability: May be repeated for credit for a maximum of 6 units.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

DANC 362 - Inclusive Interdisciplinary Ensemble

Units: 2

Study, create, and perform experimental dance/music/theater. Focus on inclusive and rigorous training, accessibility, experimental inquiry, risk-taking, and embracing diversity. For pre-professional, advanced, intermediate, and beginning students to explore methods for cross training.

Equivalent Quarter Course: DANC 3461 or DANC 3464.

Repeatability: May be repeated for credit for a maximum of 8 units.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

DANC 370 - Dance Ensemble Performance

Units: 2

An ensemble for students to create and perform an evening-length dance/theatre performance, with a focus on inclusive and rigorous training, choreographic risk-taking, innovative process and artistic excellence in performance. For pre-professional, advanced and other serious dance students.

Strongly Recommended Preparation: Concurrent enrollment in any dance technique class, and previous performance experience.

Equivalent Quarter Course: THEA 3499 or THEA 4499.

Repeatability: May be repeated for credit for a maximum of 6 units.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

DANC 371 - Dance Stage and Screen Ensemble

Units: 2

A pre-professional dance company for dedicated, adventurous performers. Training in contemporary dance technique, cross-disciplinary artistic research and performance in all styles. Communicating and thinking critically about dance. Focus on site-specific and dance for the screen. By audition.

Strongly Recommended Preparation: Previous dance experience.

Prerequisites: Department consent.

Equivalent Quarter Course: Any two from: DANC 3451, DANC 3452, DANC 3453, DANC 3454, DANC 3455, DANC 3456.

Repeatability: May be repeated for credit for a maximum of 8 units.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

DANC 372 - Dance Creative Process Ensemble

Units: 2

A pre-professional student dance company for adventurous and experienced dancers. Training in contemporary dance technique, improvisation, choreography and performance in all styles. Communicating and thinking critically about dance. Open to all by audition.

Strongly Recommended Preparation: Concurrent enrollment in any dance technique course.

Prerequisites: Department consent.

Equivalent Quarter Course: Either DANC 3451 and DANC 3452; or DANC 3453 and DANC 3454; or DANC 3455 and DANC 3456.

Repeatability: May be repeated for credit for a maximum of 8 units.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

DANC 401 - Movement Analysis

Units: 3 ; G.E./G.R. Area: C4

How movement communicates and functions in society; observation, analysis, coaching and recording of movement. *Discussion Units: 1; Activity Units: 2*

Strongly Recommended Preparation: Two semesters of movement technique, or equivalent training.

Prerequisites: Completion of GE areas A1, A2, A3 and B4.

Equivalent Quarter Course: DANC 3251.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

G.E./G.R. Area Satisfied: *C4 - Upper Division Arts or Humanities*

DANC 402 - Dance Projects

Units: 2

Field placements and advanced projects for dancers. Consult with an instructor in advance. Application of artistic skills and creative vision in internships, field research, choreographic projects, major performance roles, curriculum or other significant projects. Must be taken by majors at least two times; by minors at least once.

Strongly Recommended Preparation: Concurrent enrollment in advanced dance performance ensemble or technique course. This course is for serious dance and performance students only.

Co-requisites: THEA 381 or THEA 382, only one per semester.

Equivalent Quarter Course: THEA 4151 or THEA 4152.

Repeatability: May be repeated for credit for a maximum of 8 units.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

DANC 490 - Independent Study

Units: 1-4

Independent study under the supervision a department faculty member.

Prerequisites: Department consent and minimum 2.0 GPA.

Credit Restrictions: No more than 12 units of independent study may be applied in the major department and 8 units in other departments to a baccalaureate degree.

Equivalent Quarter Course: DANC 4900.

Repeatability: May be repeated for credit, with department consent, for a total of 12 units.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

DANC 493 - Dance Projects Capstone

Units: 3

Culminating projects and classroom workshop productions of short new works featuring various styles, periods, and challenges. Opportunity to develop a compelling issue into dance, to teach dance, or to serve a substantial internship.

Prerequisites: All of: DANC 362, THEA 100, THEA 151, THEA 432, THEA 461, THEA 462; and two courses from: either DANC 360, DANC 370, DANC 371, DANC 372 or THEA 370, THEA 381, THEA 382.

Equivalent Quarter Course: THEA 4151 and THEA 4152.

Repeatability: May be repeated for credit for a maximum of 6 units.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

DANC 497 - Issues in Dance

Units: 3

Readings, discussion, and research on contemporary and/or significant issues in dance.

Equivalent Quarter Course: DANC 3999.

Repeatability: May be repeated for credit when content varies, for a maximum of 6 units.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

Economics

ECON 100 - Economics of Public Issues

Units: 3 ; G.E./G.R. Area: D1-3

An introduction to economics with a focus on using economic analysis to examine current social, political, and global issues.

Credit Restrictions: Not for B.S. Economics credit.

Equivalent Quarter Course: ECON 1000.

Possible Instructional Methods: *Entirely On-ground, Entirely On-line.*

Grading: A-F grading only.

G.E./G.R. Area Satisfied: *D1-3 - Lower Division Social Sciences*

ECON 101 - US Economic History and Institutions

Units: 3 ; G.E./G.R. Area: D1-3; US-1, US-2

Economic history and legal foundations of economic policies and institutions in the United States; economic context of current political and social issues.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

G.E./G.R. Area Satisfied: *D1-3 - Lower Division Social Sciences, American Institutions/Code US-1 and US-2*

ECON 102 - California Economic History and Institutions

Units: 3 ; G.E./G.R. Area: D1-3

Economic development and political economy of California; impact of social and technological change, as well as state and local government policy, on the California economy.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

G.E./G.R. Area Satisfied: *D1-3 - Lower Division Social Sciences*

ECON 103 - Economics of Creative Industries

Units: 3 ; G.E./G.R. Area: D1-3

Definition and economic measurement of the creative economy; organization of cultural sector; production and supply of cultural goods; determinants of audience demand for cultural goods. Course examines the economics of creative industries: music, film, performing arts, book publishing, and broadcasting.

Possible Instructional Methods: *Entirely On-ground, Entirely On-line.*

Grading: A-F grading only.

G.E./G.R. Area Satisfied: *D1-3 - Lower Division Social Sciences*

ECON 105 - Corporate Misconduct: Crimes, Crashes, Crises

Units: 3 ; G.E./G.R. Area: D1-3

Economics behind major business failures, stock market crashes, and financial crises; US financial

history; corporate governance legislation.

Possible Instructional Methods: *Entirely On-ground, Entirely On-line.*

Grading: A-F grading only.

G.E./G.R. Area Satisfied: *D1-3 - Lower Division Social Sciences*

ECON 106 - Urban Policy, Social Justice, and the Environment

Units: 3 ; G.E./G.R. Area: D1-3

Urban policies and their effects on spatial patterns of employment, homelessness, residential segregation, and environmental quality.

Possible Instructional Methods: *Entirely On-ground, Entirely On-line.*

Grading: A-F grading only.

G.E./G.R. Area Satisfied: *D1-3 - Lower Division Social Sciences*

ECON 200 - Principles of Microeconomics

Units: 3 ; G.E./G.R. Area: D1-3; Social Justice

Develop basic theories of individual economic agents - the consumer and the firm - and how their behavior is interwoven in the marketplace. Emphasis on the use of microeconomic theory to evaluate various economic policies, including taxation, minimum wages, and rent control.

Strongly Recommended Preparation: Intermediate Algebra.

Equivalent Quarter Course: ECON 2301.

Possible Instructional Methods: *Entirely On-ground, Entirely On-line.*

Grading: A-F grading only.

G.E./G.R. Area Satisfied: *D1-3 - Lower Division Social Sciences, Overlay - Social Justice*

ECON 205 - Principles of Macroeconomics

Units: 3 ; G.E./G.R. Area: D1-3

Basic macro-economic concepts; introductory analysis of the determination of national income and employment; money and banking; fiscal policy in a global context.

Strongly Recommended Preparation: MATH 115

Equivalent Quarter Course: ECON 2302.

Possible Instructional Methods: *Entirely On-ground, Entirely On-line.*

Grading: A-F grading only.

G.E./G.R. Area Satisfied: *D1-3 - Lower Division Social Sciences*

ECON 210 - Quantitative Methods for Economists

Units: 3

Applications of mathematics and statistics to economic decision making.

Prerequisites: MATH 180 or MATH 130, and STAT 100 or STAT 110.

Possible Instructional Methods: *Entirely On-ground, Entirely On-line.*

Grading: A-F grading only.

ECON 211 - Programming for Data Analysts

Units: 3

Introduction to programming principles for data analysts.

Possible Instructional Methods: *Entirely On-ground, Entirely On-line.*

Grading: A-F grading only.

ECON 300 - Microeconomic Theory I

Units: 3

Analysis of supply and demand; production and costs; price and output determination; factor pricing and income distribution; optimum resource allocation.

Prerequisites: ECON 200.

Co-requisites: ECON 210.

Equivalent Quarter Course: ECON 3000.

Possible Instructional Methods: *Entirely On-ground, Entirely On-line.*

Grading: A-F grading only.

ECON 301 - Microeconomic Theory II

Units: 3

Market structure, externalities and public goods, game theory, information economics.

Prerequisites: ECON 300.

Equivalent Quarter Course: ECON 3001.

Possible Instructional Methods: *Entirely On-ground, Entirely On-line.*

Grading: A-F grading only.

ECON 305 - Macroeconomic Theory

Units: 3

Measurement and analysis of the determination of national income and employment; general price level; stabilization and growth.

Prerequisites: ECON 200, ECON 205 and ECON 210.

Equivalent Quarter Course: ECON 3005.

Possible Instructional Methods: *Entirely On-ground, Entirely On-line.*

Grading: A-F grading only.

ECON 306 - Money, Banking, & Financial Intermediaries

Units: 3 ; G.E./G.R. Area: D4

Essentials of commercial and central banking; financial intermediaries; monetary policy.

Prerequisites: Completion of GE areas A1, A2, A3, and B4.

Equivalent Quarter Course: ECON 3310.

Possible Instructional Methods: *Entirely On-ground, Entirely On-line.*

Grading: A-F grading only.

G.E./G.R. Area Satisfied: *D4 - Upper Division Social Sciences*

ECON 310 - Introduction to Econometrics

Units: 3

Applications of statistical techniques to obtain quantitative estimates of relationships suggested by economic analysis.

Prerequisites: ECON 200, ECON 205 and ECON 210.

Equivalent Quarter Course: ECON 4400.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

ECON 320 - History of Economic Thought

Units: 3

The key theories and individuals in the history of economic thought including Adam Smith, David Ricardo, and Karl Marx.

Prerequisites: ECON 200 and ECON 205.

Equivalent Quarter Course: ECON 3170

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

ECON 334 - Economics of Information and Organizations

Units: 3

Information economics in issues in management and governance. Application of agency theory, adverse selection, rent-seeking, and learning models to optimal design of incentives and organizations.

Monitoring mechanisms in the US financial system, evolution of corporate structures, business models, and entrepreneurship.

Prerequisites: ECON 200.

Equivalent Quarter Course: ECON 3560.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

ECON 335 - Introduction to Urban Economics

Units: 3

Economic analysis of the forces determining an urban area's income, employment, land use, industrial structure, and public sector. Applications to issues such as housing, central city-suburban relationships, transportation, and neighborhood economic development.

Prerequisites: ECON 200.

Equivalent Quarter Course: ECON 3500.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

ECON 337 - Sports Economics

Units: 3 ; G.E./G.R. Area: D4

Examines economic issues in sports using tools from microeconomics and statistics. Topics include the business of professional sports teams, competitive balance, stadium financing, determinants of player salaries, talent evaluation using analytics, and issues involving the NCAA and college athletics.

Prerequisites: ECON 200 and completion of GE areas A1, A2, A3, and B4.

Equivalent Quarter Course: ECON 4550.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

G.E./G.R. Area Satisfied: *D4 - Upper Division Social Sciences*

ECON 350 - International Economics

Units: 3

Study of the world economy through analysis of the flows of physical and capital goods across countries, as well as government policies that regulate those flows. International trade, foreign investment, operation and theory of foreign exchange markets, international monetary systems.

Strongly Recommended Preparation: ECON 385 should be taken prior to enrollment in this course; but must be taken concurrently if not completed.

Prerequisites: ECON 200 and ECON 205.

Co-requisites: ECON 385.

Equivalent Quarter Course: ECON 4705.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

ECON 360 - Environmental Economics

Units: 3

Economic effects of national or local environmental policies around the world. Particular issues include

the costs and benefits of alternative environmental policies to deal with air pollution, water management, resource depletion, open access problem, solid waste, and global warming.

Prerequisites: ECON 200 and ECON 205.

Equivalent Quarter Course: ECON 4306.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

ECON 370 - Health Economics and Public Policy

Units: 3

Economics of health and healthcare. Application of economic theories to public policy in health sector. Cost analysis, healthcare financing, public and private health insurance, and provider reimbursement models. Analysis of medical education, hospital, pharmaceutical, mental health, and long-term care markets.

Prerequisites: ECON 200 and HSC 110; HSC 110 is not required for ECON and BUAD majors.

Equivalent Quarter Course: ECON 3690.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

Cross-listed: HSC 370

ECON 380 - Managerial Economics and Business Strategy

Units: 3 ; G.E./G.R. Area: B6; Sustainability

The actions and reactions of business firms and consumers in a variety of market environments, emphasizing their strategies for optimization. Course not recommended for Economics majors.

Prerequisites: Completion of GE areas A1, A2, A3 and B4 ; and ECON 200, MATH 130 or MATH 180, and STAT 100 or STAT 110.

Credit Restrictions: Not for BS Economics Major credit.

Equivalent Quarter Course: ECON 3551.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

G.E./G.R. Area Satisfied: *B6 - Upper Division Science Inquiry and Quantitative Reasoning, Overlay - Sustainability*

ECON 383 - Game-Theoretic Reasoning: The Science of Interactive Behavior

Units: 3 ; G.E./G.R. Area: B6

This course introduces students to game theory as a tool for modeling strategic interaction mathematically. It covers static and dynamic games, finite and infinitely repeated, in the context of a variety of applications.

Prerequisites: Completion of GE areas A1, A2, A3 and B4 ; and ECON 200 and MATH 180.

Credit Restrictions: Not for major credit.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

G.E./G.R. Area Satisfied: *B6 - Upper Division Science Inquiry and Quantitative Reasoning*

ECON 385 - Global Economic Analysis

Units: 3

International trade and finance: global allocation of production and factors, impact of interest and exchange rate policy on firms, trade, and growth.

Prerequisites: ECON 200 and ECON 205.

Equivalent Quarter Course: ECON 3107.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

ECON 397 - Issues in Economic Analysis

Units: 3

Application of economic analysis to past/contemporary economic issues.

Prerequisites: ECON 200.

Repeatability: May be repeated for credit for a maximum of 18 units if content varies.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

ECON 398 - Internship

Units: 1-3

Introduction to the internship experience; integration of the academic program with career aspirations; emphasis on internship readiness and preparation for professional success.

Prerequisites: Department consent and minimum 2.0 GPA.

Credit Restrictions: No units may be applied to any CBE major or minor.

Equivalent Quarter Course: ECON 3898.

Repeatability: May be repeated with department consent for a maximum of 6 units.

Possible Instructional Methods: *Entirely On-ground.*

Grading: CR/NC grading only.

ECON 400 - Game Theory

Units: 3

Introduction to basic concepts and tools of game theory.

Prerequisites: ECON 301 or ECON 380.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

ECON 430 - Introduction to Industrial Organization

Units: 3

Factors determining industrial organization and economic behavior; operation of antitrust laws; public regulation.

Prerequisites: ECON 301 or ECON 380.

Equivalent Quarter Course: ECON 4520.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

ECON 431 - Economics of Innovation & Intellectual Property

Units: 3

Examination of the conditions and mechanisms that promote firms to undertake research and development. Topics include IP licensing, network effects and standards, the role of the U.S. patent system, alternative incentive mechanisms, technological diffusion, and the U.S. copyright system.

Prerequisites: ECON 301 or ECON 380.

Equivalent Quarter Course: ECON 3555.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

ECON 433 - Introduction to Labor Economics

Units: 3

Economic analysis of labor markets, including wages and wage determination, investments in human capital, employment and unemployment.

Prerequisites: ECON 300 or ECON 380.

Equivalent Quarter Course: ECON 3680.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

ECON 456 - Introduction to Monetary Theory

Units: 3

Review of current literature on the demand for and supply of money; effects of monetary policy on inflation, unemployment, interest rates, and balance of payments.

Prerequisites: ECON 305.

Equivalent Quarter Course: ECON 4315.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

ECON 460 - Introduction to Public Economics

Units: 3

Public sector economics; taxation, welfare economics, public goods, the rationale of government activity and collective choice.

Prerequisites: ECON 300 or ECON 380.

Equivalent Quarter Course: ECON 3370.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

ECON 490 - Independent Study

Units: 1-4

Independent study under the supervision a department faculty member.

Prerequisites: Department consent and minimum 2.0 GPA.

Credit Restrictions: No more than 12 units of independent study may be applied in the major department and 8 units in other departments to a baccalaureate degree.

Equivalent Quarter Course: ECON 4900.

Repeatability: May be repeated for credit, with department consent, for a total of 12 units.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

ECON 497 - Special Topics in Economic Analysis

Units: 3

Application of economic analysis to past and contemporary economic issues.

Prerequisites: ECON 300.

Equivalent Quarter Course: ECON 4590.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

ECON 499 - Capstone: Empirical Analysis

Units: 3

Capstone course in which students complete individual empirical assignments that synthesize and apply their knowledge of microeconomics, macroeconomics, and econometrics.

Prerequisites: ECON 211 (or CS 100 or CS 101), ECON 301, ECON 305 and ECON 310.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

Economics: Graduate

BUS 606 - Managerial Economics

Units: 3

Focuses on applying analytical tools from economics to make better managerial decisions. Representative topics include pricing, costs and profits, multi-period production, strategic decision making and uncertainty, principal-agent problems, market structure, and price discrimination.

Prerequisites: Post-baccalaureate standing, satisfaction of the WST.

Equivalent Quarter Course: ECON 6215.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

ECON 600 - Foundations of Economic Theory

Units: 4

Mathematical analysis of optimal choices and equilibria. Topics include optimization of utility and profit functions, choice under uncertainty, measuring risk preference, and derivation of partial and general equilibria.

Prerequisites: Post-baccalaureate standing.

Equivalent Quarter Course: ECON 6101.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

ECON 601 - Advanced Microeconomics

Units: 4

Game-theoretic approaches to economic modeling, especially involving imperfect and incomplete information.

Prerequisites: ECON 600.

Equivalent Quarter Course: ECON 6102.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

ECON 605 - Advanced Macroeconomics

Units: 4

Tools of modern macroeconomics, especially micro-based approaches. Topics include growth models, dynamic optimization, and real business cycles.

Prerequisites: Post-baccalaureate standing.

Equivalent Quarter Course: ECON 6105.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

ECON 610 - Advanced Econometrics

Units: 4

Standard statistical techniques in empirical analysis with emphasis on properties of estimators and use of software.

Prerequisites: Post-baccalaureate standing.

Equivalent Quarter Course: ECON 6400.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

ECON 623 - Market Design

Units: 4

Market-based solutions to business and policy problems, such as auctions and matching.

Prerequisites: Post-baccalaureate standing.

Equivalent Quarter Course: ECON 6205.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

ECON 625 - Urban Economics

Units: 4

Economic analysis of the forces determining an urban area's income, employment, land use, industrial structure, and public sector. Applications to issues such as housing, central city-suburban relationships, transportation, and neighborhood economic development.

Prerequisites: Post-baccalaureate standing.

Equivalent Quarter Course: ECON 6501.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

ECON 627 - Personnel Economics

Units: 4

Theoretical and empirical analysis of labor market operations with applications to public policy. Topics include investment in human capital, wages and wage determination, labor supply, employment and unemployment.

Prerequisites: Post-baccalaureate standing.
Equivalent Quarter Course: ECON 6680.
Possible Instructional Methods: *Entirely On-ground.*
Grading: A-F grading only.

ECON 636 - Monetary Theory

Units: 4

Review of periodical literature on static and dynamic issues of the supply and demand for money.

Prerequisites: Post-baccalaureate standing.
Equivalent Quarter Course: ECON 6315.
Possible Instructional Methods: *Entirely On-ground.*
Grading: A-F grading only.

ECON 640 - Public Economics

Units: 4

Economic analysis as applied to the public sector including public finance, welfare economics, public expenditure evaluation, theories of taxation, analysis of the U.S. tax structure, public choice, and policy issues.

Prerequisites: Post-baccalaureate standing.
Equivalent Quarter Course: ECON 6370.
Possible Instructional Methods: *Entirely On-ground.*
Grading: A-F grading only.

ECON 647 - International Economic Development

Units: 4

Selected topics in the theory and practice of international economic development with a focus on the nature and causes of development in specific areas and nations of the world.

Prerequisites: Post-baccalaureate standing.
Equivalent Quarter Course: ECON 6710.
Possible Instructional Methods: *Entirely On-ground.*
Grading: A-F grading only.

ECON 660 - Industrial Organization

Units: 4

Game-theoretic and empirical models of entry and exit, strategic competition between firms, including the models of Cournot, Bertrand, Stackelberg, Hotelling, and Salop. Research and development and adoption of new technologies.

Prerequisites: Post-baccalaureate standing.

Equivalent Quarter Course: ECON 6520.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

ECON 661 - Strategic Pricing

Units: 4

Applies economic models and econometric techniques to simulated and real data with an emphasis on demand estimation.

Prerequisites: ECON 610.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

ECON 665 - Corporate Governance & Entrepreneurship

Units: 4

Incentive theory applied to understanding governance systems and executive behavior, effect of funding sources and organization structure on firm performance, collective decision making and bargaining, issues specific to new ventures

Prerequisites: Post-baccalaureate standing.

Equivalent Quarter Course: ECON 6225.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

ECON 667 - Project Analysis

Units: 4

Benefit-cost analysis applied to resource allocation and planning. Applications to such areas as education, manpower programs, medical care, transportation, and non-profit enterprises.

Prerequisites: Post-baccalaureate standing.

Equivalent Quarter Course: ECON 6250.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

ECON 670 - Economic Research Practices

Units: 4

Provides students with analytic and research tools to increase their capacity to pose, answer, and critically evaluate questions in economic research.

Prerequisites: Post-baccalaureate standing.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

ECON 688 - Applied Data Analysis

Units: 3

Econometric methods for selected applications, such as logistic regression / binary choice, multiple regression, simultaneous equations, time series. ECON 693 is a required co-requisite for MS Economics students.

Prerequisites: ECON 610.

Co-requisites: ECON 693.

Equivalent Quarter Course: ECON 6511.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

ECON 690 - Independent Study

Units: 1-4

Independent study under the supervision of a member of the graduate faculty.

Prerequisites: Department consent and minimum 3.0 GPA.

Equivalent Quarter Course: ECON 6900.

Repeatability: May be repeated for credit, with department consent, for a total of 12 units.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

ECON 693 - Project

Units: 1

Capstone experience for MS ECON program, involving a guided student project demonstrating competency in applying analytical techniques to economic problems.

Prerequisites: ECON 600 and ECON 610.

Co-requisites: ECON 688.

Equivalent Quarter Course: ECON 6896.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

ECON 697 - Advanced Topics in Economics

Units: 4

Readings, discussion, and research on contemporary and/or significant issues in economics.

Prerequisites: Post-baccalaureate standing.

Equivalent Quarter Course: ECON 6999.

Repeatability: May be repeated for credit when content varies, for a maximum of 8 units.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

ECON 698 - Internship

Units: 1-3

Formal advanced work opportunities integrating the academic program with their career aspirations.

Integral advanced hands-on experience enhancing education and preparing for professional and personal success.

Prerequisites: Department consent and minimum 3.0 GPA.

Credit Restrictions: No units may be applied to any CBE graduate degree.

Equivalent Quarter Course: ECON 6898.

Repeatability: May be repeated with department consent for a maximum of 6 units.

Possible Instructional Methods: *Entirely On-ground.*

Grading: CR/NC grading only.

Education: Interdisciplinary - Graduate

EDUI 610 - The Web as an Interactive Educational Tool

Units: 4

Design and development of Web-based, effective instructional materials based on learning theories and interactions between the Web and students. Impacts of computing, such as security, social, ethical, and legal issues. Web authoring tools to incorporate design theory in Web projects.

Prerequisites: M.S. Educational Technology major.

Equivalent Quarter Course: EDUI 6110.

Possible Instructional Methods: *Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F grading only.

EDUI 620 - Theory and Design of E-Learning

Units: 4

Developmental theories and research with implications for educational leaders in creating effective multimedia and web-based instructional programs. Recent technological trends showing how social and cognitive psychology can provide a theoretical foundation for educational technology design.

Prerequisites: EDUI 610.

Equivalent Quarter Course: EDUI 6200.

Possible Instructional Methods: *Entirely On-ground, Entirely On-line, Hybrid (every section of this course may be*

taught both online and on-ground).

Grading: A-F grading only.

EDUI 630 - Math, Science and Technology

Units: 4

California State and National Standards in math and science. Use Internet as a tool to reflect and present best practices of math and science content. Design and develop technology-rich, problem-based learning units in math or science.

Prerequisites: EDUI 620.

Equivalent Quarter Course: EDUI 6280.

Possible Instructional Methods: *Entirely On-ground, Entirely On-line, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F grading only.

EDUI 640 - Research in Educational Technology

Units: 4

Educational technology research. Identifying and critically evaluating major research issues and findings. Applying technology tools to create a bibliography and collecting data for further investigation. Analysis and synthesis of findings.

Prerequisites: Department consent.

Equivalent Quarter Course: EDUI 6500.

Possible Instructional Methods: *Entirely On-ground, Entirely On-line, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F grading only.

EDUI 650 - Mobile Application Development

Units: 4

Design and develop educational applications for mobile devices using a variety of standard programming languages.

Prerequisites: M.S. Educational Technology major.

Possible Instructional Methods: *Entirely On-ground, Entirely On-line, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F grading only.

EDUI 660 - Digital Graphics

Units: 4

Design and creation of digital graphics. Use of Photoshop to create or edit digital graphics. Blending images, photo retouch, automations, text Effect, adjusting image color and tone, layers, and filters.

Prerequisites: EDUI 610.

Equivalent Quarter Course: EDUI 6005.

Possible Instructional Methods: *Entirely On-ground, Entirely On-line, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F grading only.

EDUI 670 - Principles of Instructional Design

Units: 4

Evaluate various instructional design theories and models. Apply one model to create stand-alone and online instructional materials, including multimedia components (e.g., text, graphics, audio, and video).

Prerequisites: Department consent.

Equivalent Quarter Course: EDUI 6210.

Possible Instructional Methods: *Entirely On-ground, Entirely On-line, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F grading only.

EDUI 680 - Current Technologies

Units: 2

Identify current technologies, present the research findings of the technologies, and apply the current technologies to design and develop effective educational materials.

Prerequisites: EDUI 610.

Equivalent Quarter Course: EDUI 6350.

Repeatability: May be repeated for credit for a maximum of 6 units.

Possible Instructional Methods: *Entirely On-ground, Entirely On-line, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F grading only.

EDUI 690 - Independent Study

Units: 1-3

Under the direction of the Graduate Faculty. Students consult with advisor.

Prerequisites: Department consent and minimum 3.0 GPA.

Equivalent Quarter Course: EDUI 6900.

Repeatability: May be repeated for credit for a maximum of 6 units.

Possible Instructional Methods: *Entirely On-ground, Entirely On-line, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: ABC/NC grading only.

EDUI 691 - University Thesis

Units: 1-4

Develop and write a formal research paper to submit to the University. Supervision by a department committee, at least one member of which must be a CSUEB faculty member.

Prerequisites: Department consent.

Repeatability: Course may be repeated for credit for a maximum of 4 units.

Possible Instructional Methods: *Entirely On-ground, Entirely On-line, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: ABC/NC grading only.

EDUI 692 - Comprehensive Examination Preparation

Units: 2

Prepare for graduate comprehensive examination. Directed readings and review of sample questions.

Prerequisites: Department consent.

Possible Instructional Methods: *Entirely On-ground, Entirely On-line, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: CR/NC grading only.

EDUI 693 - Master's Project

Units: 4

Develop an original project submitted in a Department approved format. Supervision by a department committee, at least one of whom must be a CSUEB faculty member.

Prerequisites: Department consent.

Equivalent Quarter Course: EDUI 6899.

Possible Instructional Methods: *Entirely On-ground, Entirely On-line, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: ABC/NC grading only.

EDUI 695 - Educational Technology Internship

Units: 4

Students pursuing a professional educational technology degree can apply the theory and content of coursework to real-world, on-the-job experience.

Prerequisites: Department consent.

Equivalent Quarter Course: EDUI 6420.

Possible Instructional Methods: *Entirely On-ground, Entirely On-line, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: ABC/NC grading only.

EDUI 697 - Issues in Education Interdisciplinary Studies

Units: 3

Readings, discussion, and research on contemporary and/or significant issues in education interdisciplinary studies.

Equivalent Quarter Course: EDUI 6999.

Repeatability: May be repeated for credit when content varies, for a maximum of 6 units.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

EDUI 699 - Department Thesis

Units: 4

Identify an essential educational technology topic. Evaluate and investigate its impact and significance. Conduct literature review. Design research methods. Collect and analyze data. Report the findings and implications..

Prerequisites: Department consent.

Equivalent Quarter Course: EDUI 6909.

Possible Instructional Methods: *Entirely On-ground, Entirely On-line, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: ABC/NC grading only.

Education: Online Teaching and Learning

OTL 601 - Introduction to Online Teaching and Learning

Units: 3

Incorporate online instructional design and teaching strategies into the design of an online course, including objectives, assignments, assessment, collaboration, and participation. Adapt content to online technology and media. Design to accommodate varied learning modalities.

Prerequisites: Department consent.

Equivalent Quarter Course: OTL 6701.

Possible Instructional Methods: *Entirely On-line.*

Grading: A-F grading only.

OTL 602 - Instructional Design Models for Online Learning

Units: 3

Teaching models and their relationship to curriculum development, student learning, assessment, and learning psychology. Special attention to the application of models of teaching to online instruction, differentiated learning, various teaching and learning situations, and accessibility issues.

Prerequisites: Department consent.

Co-requisites: OTL 601.

Equivalent Quarter Course: OTL 6702.
Possible Instructional Methods: *Entirely On-line.*
Grading: A-F grading only.

OTL 603 - Technology Tools for Online Instruction

Units: 3

Design and construct online environments for teaching and learning. Attention to platform, browser, system differences, and limitations and to synchronous, asynchronous, and web-based delivery systems. Differences among online delivery providers and emphasis on maximum accessibility.

Prerequisites: OTL 601.
Equivalent Quarter Course: OTL 6703.
Possible Instructional Methods: *Entirely On-line.*
Grading: A-F grading only.

OTL 604 - Designing Curriculum for Online Instruction

Units: 3

Incorporate online teaching strategies into the design of an online course, including objectives, assignments, assessment, collaboration, participation. Adapt content to online technology and media. Design to accommodate varied learning modalities.

Prerequisites: All of: OTL 601, OTL 602, OTL 603.
Equivalent Quarter Course: OTL 6704.
Possible Instructional Methods: *Entirely On-line.*
Grading: A-F grading only.

OTL 605 - Educational Planning and Development for Online Programs

Units: 3

History of innovation in education and its effect on educational culture and thought. Organizational and managerial issues, problems, decision-making and solutions for successful implementation of online programs. Solutions to unique problems in online teaching environments, such as intensive faculty development and support.

Prerequisites: All of: OTL 601, OTL 602, OTL 603, OTL 604.
Co-requisites: OTL 606.
Equivalent Quarter Course: OTL 6705.
Possible Instructional Methods: *Entirely On-line.*
Grading: A-F grading only.

OTL 606 - Research in Online Teaching and Learning

Units: 3

Research methods in education, both quantitative and qualitative, with attention to sources, collection, and uses of data. Critical analysis of research on online teaching and learning. Preparation of a research project, including references, rationale and outline. Satisfies the University Writing Skills requirement.

Prerequisites: All of: OTL 601, OTL 602, OTL 603, OTL 604.

Equivalent Quarter Course: OTL 6706.

Possible Instructional Methods: *Entirely On-line.*

Grading: A-F grading only.

OTL 607 - History and Culture of Online Learning Communities

Units: 3

Development of the current online classroom with emphasis on the history and culture of education. The evolving roles of on-ground and online teaching and learning; institutional responsibilities; and degree, certificate and enrichment programs.

Prerequisites: All of: OTL 601, OTL 602, OTL 603, OTL 604.

Co-requisites: OTL 606.

Equivalent Quarter Course: OTL 6707.

Possible Instructional Methods: *Entirely On-line.*

Grading: A-F grading only.

OTL 672 - Content Development for Online Learning

Units: 3

Create course materials specific to various learning environments: corporate, academic, military, industrial, enrichment, online and on-ground. Relevant teaching and learning strategies for each modality. Online teaching components suitable to at least two different environments.

Prerequisites: All of: OTL 601, OTL 602, OTL 603, OTL 604.

Co-requisites: OTL 606.

Equivalent Quarter Course: OTL 6772.

Possible Instructional Methods: *Entirely On-line.*

Grading: A-F grading only.

OTL 673 - Supervising and Evaluating Online Teaching

Units: 3

Effective delivery of online materials in the context of educational theories of supervision. Adapting techniques, including clinical supervision, to promote and support online teachers' growth and development. Online mentoring of new online teachers.

Prerequisites: All of: OTL 601, OTL 602, OTL 603, OTL 604.

Co-requisites: OTL 606.

Equivalent Quarter Course: OTL 6773.

Possible Instructional Methods: *Entirely On-line.*

Grading: A-F grading only.

OTL 674 - Current Issues in Online Learning

Units: 3

Problems and promises of online teaching and learning, including gender, class, and race in online teaching and learning; potential impact of corporate influences on traditional educational paradigms; and the future of both online and on-ground education.

Prerequisites: All of: OTL 601, OTL 602, OTL 603, OTL 604.

Co-requisites: OTL 606.

Equivalent Quarter Course: OTL 6774.

Possible Instructional Methods: *Entirely On-line.*

Grading: A-F grading only.

OTL 680 - Building the Online Environment

Units: 3

Design and implement an online teaching site, including assignments, interactivity, contact protocols, syllabus, course materials, and research and development resources for student use. Presentation of materials in various formats.

Prerequisites: All of: OTL 601, OTL 602, OTL 603, OTL 604.

Co-requisites: OTL 606.

Equivalent Quarter Course: OTL 6780.

Possible Instructional Methods: *Entirely On-line.*

Grading: A-F grading only.

OTL 681 - Creating Digital Media for Online Instruction

Units: 3

Making multimedia materials available in the online classroom with texts, images, sounds, videos, and animations. Focus on needs of students with accessibility challenges.

Prerequisites: All of: OTL 601, OTL 602, OTL 603, OTL 604.

Co-requisites: OTL 606.

Equivalent Quarter Course: OTL 6781.

Possible Instructional Methods: *Entirely On-line.*

Grading: A-F grading only.

OTL 682 - Designing and Implementing User Interfaces for Online Instruction

Units: 3

Use principles of user interface, audience analysis, discourse communities and educational psychology to design online educational sites for teachers, learners and the global community. Use colors, images, animations, and interactivity to facilitate communication with online students. Accessibility issues stressed.

Prerequisites: All of: OTL 601, OTL 602, OTL 603, OTL 604.

Co-requisites: OTL 606.

Equivalent Quarter Course: OTL 6782.

Possible Instructional Methods: *Entirely On-line.*

Grading: A-F grading only.

OTL 683 - Providing Interactivity in the Online Environment

Units: 3

Use latest and most sophisticated web resources to create learning environments that maximize accessibility, interactivity, collaboration, document sharing, assessment and access to multimedia materials.

Prerequisites: All of: OTL 601, OTL 602, OTL 603, OTL 604.

Co-requisites: OTL 606.

Equivalent Quarter Course: OTL 6783.

Possible Instructional Methods: *Entirely On-line.*

Grading: A-F grading only.

OTL 693 - Capstone Project

Units: 3

Develop an online course that demonstrates best practices appropriate to candidate's subject-area expertise, learner needs and workplace opportunities and constraints. Write about the course design in terms of accessibility and formative assessment.

Prerequisites: Department consent and., minimum 3.0 GPA.

Equivalent Quarter Course: OTL 6899.

Possible Instructional Methods: *Entirely On-line.*

Grading: A-F grading only.

Educational Leadership

EDLD 600 - Leading for Social Justice and Equity in Urban Schools

Units: 4 ; G.E./G.R. Area: UWSR

Examining sociocultural contexts in education to provide emerging school leaders an introduction to theoretical and practical frameworks for the engagement and advocacy for social justice leadership in urban, suburban and rural schools.

Prerequisites: Admission to MS Educational Leadership Program.

Possible Instructional Methods: *Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F grading only.

G.E./G.R. Area Satisfied: *University Writing Skills Requirement*

EDLD 610 - Transforming Professional Learning to Support Equitable Student Outcomes

Units: 4

Examining the multiple perspectives and approaches of professional learning. Assisting emerging school leaders in understanding diversity to advocate, build, and sustain a collaborative culture of learning and opportunities for all school constituencies.

Prerequisites: Admission to either MS Educational Leadership program, and/or the Preliminary Services Credential Program.

Possible Instructional Methods: *Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F grading only.

EDLD 620 - Educational Leadership for Equitable Resources

Units: 3

Examines the decentralization of fiscal and human resources resulting in increased accountability for schools and districts. Guides emerging school leaders in evaluating the significance and consequences of decisions linked to student outcomes and accountability systems.

Prerequisites: Admission to either MS Educational Leadership program, and/or the Preliminary Services Credential Program.

Possible Instructional Methods: *Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F grading only.

EDLD 625 - School Laws, Policies and Governance for Equitable Outcomes

Units: 3

Examines statutes, court cases, and the application of legal principles. Acquaints emerging school leaders with California school law as it relates to school programs, operations, students, parents, school personnel and educational practitioners.

Prerequisites: Admission to either MS Educational Leadership program, and/or the Preliminary Services Credential Program.

Possible Instructional Methods: *Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F grading only.

EDLD 630 - Collaborative Research for Equity

Units: 4

Explores several research frameworks, particularly collaborative action research, and tools designed to collect evidence about sites. Analyzes the evidence to identify possible social justice and equity foci of great significance for inquiry.

Prerequisites: Admission to MS Educational Leadership Program.

Possible Instructional Methods: *Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F grading only.

EDLD 635 - Equity Research Design I

Units: 3

Implement an inquiry project, including sampling, site selection, research design, instrumentation, and completion of IRB approval protocol.

Prerequisites: Admission to MS Educational Leadership Program.

Possible Instructional Methods: *Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F grading only.

EDLD 645 - Equity Research Design II

Units: 3

Analyze data/evidence and report phases of the inquiry process. Extension of the inquiry project completed in fall semester.

Prerequisites: Admission to MS Educational Leadership Program.

Possible Instructional Methods: *Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F grading only.

EDLD 650 - Critical Topics in Educational Leadership I

Units: 1

Engage in readings, discussion, and inquires on contemporary and/or significant issues in educational leadership. Course may be repeated for credit when content varies for a maximum of 3 units.

Prerequisites: Admission to MS Educational Leadership Program.

Repeatability: May be repeated for credit when content varies for a maximum of 3 units.

Possible Instructional Methods: *Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F grading only.

EDLD 655 - Critical Topics in Educational Leadership II

Units: 1

Readings, discussions, and inquires on contemporary and/or significant issues in educational leadership. Participation in CSU Educational Leadership Institute required. Course may be repeated for a maximum

of 3 units.

Prerequisites: Admission to MS Educational Leadership Program.

Repeatability: May be repeated for a maximum of 3 units

Possible Instructional Methods: *Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F grading only.

EDLD 681 - Coaching and Assessment Practicum I

Units: 2

Focus on individual candidate assessment and support plan in collaboration school district mentor and university coaches based on California Professional Standards for Education Leaders (CPSEL).

Prerequisites: Admission to Preliminary Administrative Credential Program and department consent.

Possible Instructional Methods: *Hybrid (every section of this course may be taught both online and on-ground).*

Grading: CR/NC grading only.

EDLD 682 - Coaching and Assessment Practicum II

Units: 2

Second of four courses in a professional development sequence of a two-year Administrative Credential Program. Focus on individual candidate assessment and support plan in collaboration school district mentor and university coaches based on California Professional Standards for Education Leaders (CPSEL).

Prerequisites: Department consent.

Possible Instructional Methods: *Hybrid (every section of this course may be taught both online and on-ground).*

Grading: CR/NC grading only.

EDLD 683 - Coaching and Assessment Practicum III

Units: 2

Focus on individual candidate assessment and support plan in collaboration with school district mentor and university coaches based on California Professional Standards for Education Leaders (CPSEL).

Prerequisites: Department consent.

Possible Instructional Methods: *Hybrid (every section of this course may be taught both online and on-ground).*

Grading: CR/NC grading only.

EDLD 684 - Coaching and Assessment Practicum IV

Units: 2

Individual candidate assessment and professional support from school district mentor and university coaches based on California Professional Standards for Education Leaders (CPSEL).

Prerequisites: Department consent.

Possible Instructional Methods: *Hybrid (every section of this course may be taught both online and on-ground).*

Grading: CR/NC grading only.

EDLD 685 - Managing an Organization and Developing a Collaborative Culture

Units: 1

Managing organizations to cultivate a safe productive learning and working environment. Focuses education leaders on strategies to shape a collaborative culture of teaching and learning informed by professional standards and focused on teacher professional growth.

Prerequisites: Department consent.

Possible Instructional Methods: *Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F grading only.

EDLD 686 - Professional and Community Development

Units: 1

Professional development of staff and management of communication and information systems in schools. Examines five major themes: Organizational and cultural environment, strategic planning, ethical reflective leadership, analysis of public policy, and management of human and fiscal resources

Prerequisites: Department consent.

Possible Instructional Methods: *Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F grading only.

EDLD 687 - Developing an Inquiring Community

Units: 1

Examines community and inquiry methods, such as action research, and student, adult and organizational learning. Focus on four major themes: Developing shared vision, parent and family engagement, community partnerships and community resources and services.

Prerequisites: Department consent.

Possible Instructional Methods: *Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F grading only.

EDLD 688 - Political Social Context in Education

Units: 1

Explore role of educational leaders in influencing political, social, economic, legal and cultural context to improve education policies and practices. Examines issues of ethics, integrity, justice and equity. Identify multiple stakeholders and strategies that support equitable student outcomes.

Prerequisites: Department consent.

Possible Instructional Methods: *Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F grading only.

EDLD 690 - Independent Study

Units: 1-3

Independent study under direction of faculty.

Prerequisites: Department consent and minimum 3.0 GPA.

Equivalent Quarter Course: EDLD 6900.

Repeatability: May be repeated for credit for a maximum of six (6) units.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

EDLD 693 - Collaborative Research Project

Units: 4

Explore social, cultural and linguistic diversity issues linked to larger equity and social justice concerns at students' sites. Students seek to uncover the issue's governing variables. Students organize and analyze the evidence and publicly report findings, conclusions and recommendations.

Prerequisites: Admission to MS Educational Leadership Program.

Possible Instructional Methods: *Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F grading only.

EDLD 695 - Fieldwork Practicum

Units: 2

Supported by a fieldwork coach, candidates for the Preliminary Administrative Services credential are required to participate in authentic administrative experiences that inextricably link the conditions of schooling and student outcomes.

Prerequisites: Admission to Preliminary Administrative Services Credential Program.

Equivalent Quarter Course: This 2 course sequence (695 & 696) was the three quarter Fieldwork sequence EDLD 6801, 6802, 6803.

Possible Instructional Methods: *Hybrid (every section of this course may be taught both online and on-ground).*

Grading: CR/NC grading only.

EDLD 696 - Fieldwork Practicum

Units: 2

Supported by the guidance of a fieldwork coach, candidates for the Preliminary Administrative Services credential are required to participate in authentic administrative experiences that illuminate issues that inextricably link the conditions of schooling and student outcomes.

Equivalent Quarter Course: This 2 course sequence (695 AND 696) replaces the three quarter course sequence EDLD 6801 and 6802 and 6803 (all three completed).

Possible Instructional Methods: *Hybrid (every section of this course may be taught both online and on-ground).*

Grading: CR/NC grading only.

EDLD 697 - Issues in Educational Leadership

Units: 1-3

Readings, discussion, and research on contemporary and/or significant issues in educational leadership. May be repeated for credit when content varies, for a maximum of 3 units.

Prerequisites: Department consent.

Equivalent Quarter Course: EDLD 6999.

Repeatability: May be repeated for credit when content varies, for a maximum of 3 units.

Possible Instructional Methods: *Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F grading only.

Educational Leadership: Doctoral

EDLD 700 - Transformative Leadership

Units: 3

New doctoral students acclimate to the university learning management system and practice scholarly writing; they explore research and examine their ethics and values of educational leadership for the purpose of transforming educational institutions into democratic organizations of equity and social justice.

Prerequisites: Admission to Ed.D. Educational Leadership Program.

Possible Instructional Methods: *Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F grading only.

EDLD 705 - Foundations of Inquiry for Social Justice

Units: 3

Explore multiple paradigms of inquiry, dominant and emancipatory forms of knowledge construction, and multiple dimensions that shape research/knowledge construction. Articulate an area of interest and develop a critical base for designing research about/in that area.

Prerequisites: Admission to Ed.D. Educational Leadership Program.

Possible Instructional Methods: *Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F grading only.

EDLD 710 - Social and Cultural Foundations of Education

Units: 3

Engages students in a reflective and analytic approach to recognize underlying social, historical, and political influences that limit or promote social justice within schools and society. Demonstrates how transformative leaders leverage cultural and economic resources for eliminating injustice and exclusion.

Prerequisites: Admission to Ed.D. Educational Leadership Program.

Possible Instructional Methods: *Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F grading only.

EDLD 715 - Transforming Teaching and Learning in Schools

Units: 3

Examine theoretical and empirical literature regarding pedagogy and curriculum for social justice, teacher learning and development, and ongoing professional learning. Draft pedagogical vision, conduct a teacher-learning inquiry, and design a professional learning plan.

Prerequisites: Admission to Ed.D. Educational Leadership Program.

Possible Instructional Methods: *Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F grading only.

EDLD 720 - Qualitative Inquiry for Social Justice

Units: 3

Engage with multiple methods of qualitative inquiry to promote social justice. Examine constructivist, critical, and gender-influenced approaches to three main research designs: Case study, ethnography, and action/participatory research. Conduct a community-based mini-research project.

Prerequisites: EDLD 705.

Possible Instructional Methods: *Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F grading only.

EDLD 725 - Reading and Writing about Educational Leadership

Units: 3

Students synthesize the empirical literature to provide compelling evidence for the importance of an identified educational issue, the state of current research and the need for future research.

Prerequisites: Admission to Ed.D. Educational Leadership Program.

Possible Instructional Methods: *Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F grading only.

EDLD 730 - Community Advocacy, Outreach, and Organizing

Units: 3

Examine the role of community organizing and action for fostering school change. Study efforts to

engage in community collaboration, learn strategies for community advocacy, outreach, and grassroots organizing, and take part in a research project with a community organization.

Prerequisites: EDLD 720.

Possible Instructional Methods: *Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F grading only.

EDLD 735 - Engaging Critical Social Theories for Designing Research for Equity and Social Justice

Units: 3

Taps critical theoretical schools of thought to understand and address salient problems impacting schools, students and communities. Evaluates research designs and strategies for engaging in inquiry for social justice.

Prerequisites: Admission to Ed.D. Educational Leadership Program.

Possible Instructional Methods: *Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F grading only.

EDLD 740 - Reform and Change for Social Justice

Units: 3

The theory, underlying values, and empirical evidence of various approaches to educational reform. Critical examination of reform approaches in light of social justice.

Prerequisites: Admission to Ed.D. Educational Leadership Program.

Possible Instructional Methods: *Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F grading only.

EDLD 745 - Quantitative Inquiry: Data Analysis and Evaluation for Leaders

Units: 3

Examining the philosophical, ethical, and methodological issues embedded in quantitative approaches to educational research, including the relationship of data use to equity and evaluation, including a hands-on experience generating and using survey data for evaluation.

Prerequisites: Admission to Ed.D. Educational Leadership Program.

Possible Instructional Methods: *Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F grading only.

EDLD 750 - Critical Policy Studies in Education

Units: 3

Develops a critical orientation towards the construction, implementation, and social impact of educational policies. Recognizes how educational leaders exert agency through constructing and implementing

policies that challenge injustice, inequality, and power imbalances in educational institutions and society.

Prerequisites: Admission to Ed.D. Educational Leadership Program.

Possible Instructional Methods: *Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F grading only.

EDLD 755 - Applied Study of Educational Issues: Professional Residency I

Units: 3

Practical leadership experience working in the educational field. Students apply skills and knowledge to identify, analyze, and impact relevant educational issues. Residency experiences fulfill the requirements for the Professional California Administrative Credential.

Prerequisites: Admission to Ed.D. Educational Leadership Program.

Repeatability: May be repeated for credit for a maximum of 15 units.

Possible Instructional Methods: *Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F grading only.

EDLD 760 - Evaluation Research Practicum for Social Justice

Units: 3

Focuses on the core knowledge and skills needed to design, conduct and report on an empirical study. Students will design and conduct a pilot study related to their dissertation. They will analyze data to create and report major findings.

Prerequisites: Admission to Ed.D. Educational Leadership Program.

Possible Instructional Methods: *Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F grading only.

EDLD 765 - Applied Study of Educational Issues: Professional Residency II

Units: 2

Students gain practical leadership experience working in the educational field as they apply skills and knowledge to identify, analyze, and impact relevant educational issues. Residency experience fulfill the requirements for the Professional California Administrative Credential.

Prerequisites: Admission to Ed.D. Educational Leadership Program.

Repeatability: May be repeated for four (4) times for credit for a maximum 10 units.

Possible Instructional Methods: *Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F grading only.

EDLD 770 - Critical Perspectives for Finance and Resource Management

Units: 3

Theory, policy, law and structure of organization and resources in equitable and democratic educational

institutions that foster high academic achievement for all students.

Prerequisites: Admission to Ed.D. Educational Leadership Program.

Possible Instructional Methods: *Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F grading only.

EDLD 775 - Organizations and Systems for Equity

Units: 3

Organizational theory is examined and students enhance their ability to think systemically as they learn models and strategies to facilitate their knowledge for the purpose of implementing inclusive cultures that foster trust, challenge assumptions, resolve conflict, and support teaching and learning.

Prerequisites: Admission to Ed.D. Educational Leadership Program.

Possible Instructional Methods: *Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F grading only.

EDLD 780 - Research for Equity and Social Justice

Units: 2

Present preliminary dissertation findings in academic and professional venues. Investigates the ethical issues tied to format and styles used in disseminating research. Evaluates the impact disseminating research has on promoting social justice in schools and communities.

Credit Restrictions: Open for credit to Ed.D. Cohorts only.

Possible Instructional Methods: *Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F grading only.

EDLD 790 - Research Topic Exploration

Units: 2

Explore an area of research interest leading to a dissertation. Supported guidance in reading, writing and research.

Possible Instructional Methods: *Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F grading only.

EDLD 791 - Collaborative Proposal Research

Units: 1

Formulate an area of research interest leading to the dissertation proposal. With supporting guidance learn the fundamentals of beginning the dissertation process.

Prerequisites: Admission to Ed.D. Educational Leadership Program.

Possible Instructional Methods: *Hybrid (every section of this course may be taught both online and on-ground).*
Grading: A-F grading only.

EDLD 792 - Collaborative Proposal Development

Units: 2

With supporting guidance of faculty, students narrow their research to a problem of significance in education and begin to develop the dissertation proposal. Learn best practices in organizing information.

Prerequisites: Admission to Ed.D. Educational Leadership Program.

Possible Instructional Methods: *Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F grading only.

EDLD 793 - Collaborative Dissertation Writing

Units: 3

Dissertation writing with supported guidance. Learn best practices of finalizing research for the dissertation.

Prerequisites: Admission to Ed.D. Educational Leadership Program.

Possible Instructional Methods: *Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F grading only.

EDLD 799 - Dissertation Seminar

Units: 3

Research and writing that culminates in the doctoral dissertation. Learn how to include implications for equity and social justice.

Prerequisites: Admission to Ed.D. Educational Leadership Program.

Possible Instructional Methods: *Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F grading only.

Educational Psychology

EPSY 101 - Career Planning For College Students

Units: 2 ; G.E./G.R. Area: E

For students who are unclear about their career goals. Discussion, individual and small group activities designed to increase students' self-knowledge in terms of interests, abilities, and values, as well as information about the world of work and effective decision making techniques.

Possible Instructional Methods: *Entirely On-ground.*

Grading: CR/NC grading only.

G.E./G.R. Area Satisfied: *E - Lifelong Learning and Self-Development*

EPSY 230 - Strategies for Lifespan Mental Health

Units: 3

Using theory and research from mental health disciplines to develop strategies for maintaining psychological health and peak performance over the lifespan. The impact of relationships, self-concept, cognitions, emotions, spirituality, body image, and diverse cultural identities on mental health.

Possible Instructional Methods: *Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F grading only.

EPSY 301 - Orientation to Careers in Counseling

Units: 3

Overview of counseling profession and different types of employment using counseling skills through self awareness activities; assists students with career/major choices. Skills and licenses required for marriage and family, career, school, rehabilitation and substance-abuse counseling.

Possible Instructional Methods: *Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F grading only.

EPSY 497 - Issues in Educational Psychology

Units: 3

Readings, discussion, and research on contemporary and/or significant issues in educational psychology.

Equivalent Quarter Course: EPSY 3999.

Repeatability: May be repeated for credit when content varies, for a maximum of 6 units.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

Educational Psychology: Graduate

EPSY 630 - Law, Ethics and Professional Issues

Units: 3

Professional ethics and statutory, regulatory and decisional laws currently applicable to the practice of counseling and psychotherapy. Confidentiality, mandated reporting laws, family and child laws as they affect clinical practice. The relationship between a counselor's personal values and professional behavior and ethics.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

EPSY 631 - Intimate Partner Violence

Units: 1

Detection, assessment, and diagnosis of spousal or partner abuse. Clinical issues regarding emotional abuse and violence in domestic relationships. Interventions for the treatment of couples in abusive relationships.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

EPSY 632 - Child Abuse Assessment and Reporting

Units: 1

Legal and clinical aspects of child abuse as an issue in counseling and psychotherapy practice. Child abuse reporting laws and procedures, the psychological and family system variables important in assessment, and both individual and family treatment strategies.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

EPSY 633 - Substance Abuse

Units: 3

Survey of concepts of alcoholism and other chemical substance dependency. Assessment and treatment modalities applied to addictive disorders.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

EPSY 634 - Family and Life Cycle Development

Units: 3

Theory and research covering family and life cycle development. Emphasis on the interaction of biological and social factors and their psychological consequences.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

EPSY 635 - Pre-Practicum Microcounseling Skills in Relational Practice

Units: 2

Develop and practice the basic skills of systemic-relational counseling, especially the skills of listening. Use of brief videotaped counseling sessions ("microcounseling"). Students role-play to observe, analyze, and evaluate techniques of counseling.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

EPSY 636 - Counseling Theories

Units: 3

Current theories of counseling and psychotherapy; development of individual counseling approach.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

EPSY 637 - Multicultural Counseling

Units: 3

Multicultural counseling and psychotherapy, cultural values and personality formation; value orientation inherent in counseling and psychotherapy; psychological effects of cultural racism; effects of sex roles and life styles within different cultures.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

EPSY 638 - Psychopathology

Units: 3

Etiology, assessment, and treatment of the major psychological disorders of childhood through adulthood. Ability to prevent psychological disorders. A multidimensional perspective presented through case study, differential diagnosis, assessment procedures, treatment planning and intervention.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

EPSY 639 - Community Mental Health Counseling

Units: 3

Community mental health theories and skills required by the BBS: Recovery orientation treatment for severe mental illness, disaster and trauma response, impoverished and homeless services, foster-care, case management, client advocacy, collaboration, community service resources, and medical family therapy.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

EPSY 641 - Child and Youth Psychotherapy

Units: 3

Theories, research, and techniques of psychotherapeutic assessment and treatment of children, youth and their families. Developmental considerations, assessment, diagnosis, and interventions; working with special populations. Experiential component combining theory and practice.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

EPSY 642 - Grief, Trauma, and Crisis Counseling

Units: 2

The unique problems and situations of people facing loss, grief, and bereavement. Emotional reactions to death and loss. Counseling strategies based on stress reduction and the development of positive resolutions.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

EPSY 643 - Family Therapy

Units: 3

Discussion and activities in psychotherapeutic techniques. Theory and research dealing with family interaction and communication. Diagnostic and intervention methods for dysfunctional family systems.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

EPSY 644 - Pre-Practicum Microcounseling Skills in Relational Practice II

Units: 2

Development of the counselor's ability to influence others. Use of brief videotaped counseling sessions ("microcounseling"). Students will role-play to observe, analyze, and evaluate techniques of counseling.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

EPSY 645 - Introduction to Systemic-Relational Practice

Units: 2

The principles and concepts of systemic-relational counseling, including communication dynamics, intervention techniques, and development of a personal theory of counseling. Introductory learning experience to prepare graduate students for professional counseling in clinical settings.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

EPSY 646 - Contemporary Issues: Aging & Long-Term Care

Units: 2

Seminar in theoretical, research, and counseling approaches concerning special issues and populations,

such as delinquents, drug users, aged, the poor.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

EPSY 647 - Psychopharmacology

Units: 3

Theory and research from the psychiatric and psycho-pharmacological disciplines used to increase counselors' knowledge of the medical treatments for adult and child psychological and developmental disorders. The interface between psychotherapy and these medications.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

EPSY 648 - Assessment and Testing

Units: 3

Diagnostic interviewing, personality, intelligence and achievement testing and assessments commonly used in psychotherapy practice. Test construction, validity and reliability, interpretation of results, and ethics of testing. Meets BBS LMFT/LPCC requirements.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

EPSY 650 - Group Counseling Theory and Practice

Units: 3

Theories, principles of group dynamics and processes facilitating individual, small group, and organizational change. Interpersonal skills in group process. Clinical analysis of actual group experiences

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

EPSY 651 - Research Methods for Evidenced-Based Practice and Advocacy

Units: 3

Advocacy through research application and methods for action research in settings employing counselors, educators, and psychologists.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

EPSY 652 - Human Sexuality and Gender

Units: 1

Physiological, psychological, social and cultural variables and their effects on sexual identity, sexual behavior and sexual disorders. Clinical treatment of sexual problems. Gender addressed.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

EPSY 653 - Couples Therapy

Units: 3

Theory and techniques of counseling clients in couples, with an emphasis on spousal relationships. Assessment and treatment planning with issues of communication, intimacy, sexuality, goals, domestic violence, marriage, and divorce.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

EPSY 654 - Career Counseling

Units: 3

Career planning theory and counseling techniques with various populations; development of career libraries and centers, employability development techniques; observation and participation in career counseling in mental health, school and community settings.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

EPSY 655 - Advanced Pupil Personnel Services

Units: 3

Theory and practice of pupil personnel services. Application of best practices to school placements. Development of professional goals and professional portfolio.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

EPSY 660 - Clinic Rounds

Units: 3

Clinical, professional, and mental health service seminar with Director of Community Counseling Clinic (CCC). Discussion of procedures, practices, case assignment, Clinic ethics, rules, and responsibilities. Topics address clinical, professional, and mental health service training. Course must be repeated twice: 3 units in the fall and 3 units in the spring.

Prerequisites: EPSY 695.

Co-requisites: EPSY 666.

Repeatability: Must be repeated for credit for a maximum of 6 units.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

EPSY 661 - Academic Counseling

Units: 3

Focus on the academic domain in school counseling as detailed by the American School Counselor Association (ASCA) National Model. Emphasis on orienting school counselors-in-training to theoretical and practical academic aspects of comprehensive school counseling programs.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

EPSY 662 - Cognitive Behavior Therapy

Units: 3

Principles and practice of cognitive and behavior therapies, including individual and group interventions. School and personal growth projects emphasize data collection for intervention planning in social-emotional and psychological development.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

EPSY 663 - Psychoeducational Report Writing

Units: 3

Foundations of multi-method, multi-source data collection and psychoeducational report writing. Application of record review, interview, observation, and testing in K-12 schools with a caseload of students.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

EPSY 664 - Diverse Needs in School Counseling

Units: 2

The role of the school counselor and supporting the diverse needs that school counselors-in-training will encounter in the field. Primary emphasis on special education and support for English Learners and recently immigrated students.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

EPSY 665 - Leadership, Advocacy, and Wellness

Units: 2

The personal/social aspects of the American School Counseling Association (ASCA) standards for school counseling. Emphasis on ways that school counselors-in-training can be advocates and participatory leaders at their future campuses.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

EPSY 666 - Psychological Services in School Psychology

Units: 1

The planning and delivery of psychological and counseling services. Concepts, responsibilities and functions of the School Psychologist in collaboration with other school-based service providers. History of School Psychology, NASP Standards and professional identity.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

EPSY 668 - Social and Emotional Assessment

Units: 3

Clinical skills for childhood and adolescent emotional and behavioral assessment and intervention in schools and community settings. Application of multi-method procedures for assessing students exhibiting social-emotional difficulties. Treatment planning and community referrals for mental-health prevention.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

EPSY 669 - Moderate/Severe Disability Identification and Intervention

Units: 3

Assess children who evince low incidence handicapping conditions. Identify community-based and school resources. Collaborate with other professionals in supporting healthy development and academic growth. Apply case study reviews and special education law

Prerequisites: Admission to M.S. in Counseling, School Psychology Concentration.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

EPSY 671 - Academic/Behavioral Assessment and Interventions

Units: 3

Early academic and social-behavioral screenings, using an alternative framework-Response to Intervention & Instruction. Knowledge and skills to provide educational recommendations for children on a systemic level of services in schools who exhibit academic and behavioral deficits from diverse backgrounds.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

EPSY 672 - Cognitive and Developmental Assessment

Units: 5

Concepts and theories of intelligence and measurement applied to assessment of ability and learning. Administration and supervision of standardized instruments, report writing and test interpretation. Major types of individually administered intelligence tests, uses, and interpretation.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

EPSY 673 - Assessment of English Language Learners

Units: 1

Language acquisition and cultural factors impacting English Language Learners (ELL) with emphasis on classroom experiences and special educational assessment. Classroom observation and case-study assignments required with students acquiring English.

Prerequisites: Admission to M.S. in Counseling, School Psychology Concentration.

Credit Restrictions: Open to School Psychology cohorts only.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

EPSY 674 - Lab: Psychoeducational Report Writing

Units: 2

This lab course provides professional and technical evaluation and feedback for psychoeducational report writing.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

EPSY 678 - School Psychology Practicum: First-Year Supervision

Units: 3

Required year-long first-year professional practicum in School Psychology practice incorporating 10 NASP Training Skill Domains. Must be repeated for credit for a maximum of 6 units.

Repeatability: Course must be repeated for a maximum of 6 units.

Possible Instructional Methods: *Entirely On-ground.*

Grading: CR/NC grading only.

EPSY 679 - School Psychology Advanced Practicum: Second-Year Supervision

Units: 3

Required year-long second-year professional practicum in School Psychology incorporating 10 NASP Training Skill Domains. Must be repeated for 6 units.

Repeatability: Must be repeated once for a maximum of 6 units.

Possible Instructional Methods: *Entirely On-ground.*

Grading: CR/NC grading only.

EPSY 680 - School Psychology Internship Supervision

Units: 6

Supervised third-year experience in a professional setting using the full range of competencies in the Interns' concentration.

Repeatability: Must be repeated for a maximum of 12 units.

Possible Instructional Methods: *Entirely On-ground.*

Grading: CR/NC grading only.

EPSY 681 - Foundations in School Counseling

Units: 3

Focus on the American School Counselor Association (ASCA) National Model and the creation and implementation of a comprehensive school counseling program. Emphasis on experiential learning in the field using the theoretical concepts learned in the course.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

EPSY 682 - Mental Health Consultation in Schools

Units: 3

Social Justice advocacy in schools through collaboration and multicultural consultation. Theory and practice applied to K-12 educators. Ongoing consultation with classroom teacher required.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

EPSY 683 - Crisis in Schools and Mental Health Settings

Units: 2

System-based training before, during, and after crises. Knowledge about crisis intervention theory, implementing crisis interventions and crisis counseling to promote mental health, risk and resiliency of individuals affected by crisis events at the individual, school-wide, and community level.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

EPSY 684 - Neuropsychology of Learning Disorders

Units: 4

Diagnosis and rehabilitation of learning disorders emphasizing a neuropsychological approach with focus on two primary psychological processing test batteries.

Prerequisites: EPSY 672.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

EPSY 685 - Advanced Service Delivery in School Psychology

Units: 3

Advanced professional preparation in the theory and practice of school psychology. Specific assessment of all 10 NASP Skill areas through course content, professional reflection, and case-based assignments.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

EPSY 690 - Independent Study

Units: 1-4

Independent study under the supervision of a member of the graduate faculty.

Prerequisites: Department consent and minimum 3.0 GPA.

Equivalent Quarter Course: EPSY 6900.

Repeatability: May be repeated for credit, with department consent, for a total of 12 units.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

EPSY 692 - Action Research and Comprehensive Evaluation

Units: 3

Examination of current counseling and psychotherapy theories. Individuals will practice counseling skills and techniques in the classroom. Strong focus on development of individual counseling approach.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

EPSY 693A - Project in Marriage and Family Therapy

Units: 4

Development of an original product which is summarized in a written abstract. Both the project and the abstract are submitted to the department which specifies their formats. Supervision by a departmental committee, at least one of whom must be a Cal State East Bay faculty member. Oral defense may be required.

Prerequisites: Admission to M.S. Counseling: Marriage and Family Therapy Concentration.

Equivalent Quarter Course: EPSY 6899.

Possible Instructional Methods: *Entirely On-ground.*

Grading: CR/NC grading only.

EPSY 693B - Project in School Counseling

Units: 4

Development of an original Project in School Counseling. Supervised by a department faculty member. Oral defense may be required.

Prerequisites: Admission to M.S. Counseling: School Counseling Concentration.

Equivalent Quarter Course: EPSY 6899.

Possible Instructional Methods: *Entirely On-ground.*

Grading: CR/NC grading only.

EPSY 693C - Project in School Psychology

Units: 4

Development of an original project in School Psychology. Supervised by a department faculty member. Oral defense may be required.

Prerequisites: Admission to M.S. Counseling: School Psychology Concentration.

Possible Instructional Methods: *Entirely On-ground.*

Grading: CR/NC grading only.

EPSY 695 - Practicum

Units: 1-4

Supervised experience in a professional setting using the competencies in the student's concentration.

Prerequisites: Department consent.

Repeatability: May be repeated for credit for a maximum of 12 units.

Possible Instructional Methods: *Entirely On-ground.*

Grading: CR/NC grading only.

EPSY 696 - Advanced Practicum

Units: 3

Advanced practicum is an intensive, supervised clinical experience intended to prepare students in the development of counseling interventions through recorded sessions and discussions of ongoing cases in the Community Counseling Clinic (CCC) and in school placements.

Prerequisites: EPSY 695.

Co-requisites: EPSY 644.

Repeatability: Course must be repeated for a maximum of 6 units (3 units in the fall and 3 units in the spring).

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

EPSY 697 - Issues in Educational Psychology

Units: 2

Readings, discussion, and research on contemporary and/or significant issues in educational psychology.

Equivalent Quarter Course: EPSY 6999.

Repeatability: May be repeated for credit when content varies, for a maximum of 6 units.

Possible Instructional Methods: *Entirely On-ground.*

Grading: CR/NC grading only.

EPSY 698 - Internship

Units: 1-3

Formal advanced work opportunities integrating the academic program with their career aspirations. Integral advanced hands-on experience enhancing education and preparing for professional and personal success.

Prerequisites: Department consent and minimum 3.0 GPA.

Equivalent Quarter Course: EPSY 6898.

Repeatability: May be repeated once with department consent for a maximum of 6 units.

Possible Instructional Methods: *Entirely On-ground.*

Grading: CR/NC grading only.

SPED 500 - Educating All Learners in Diverse Classrooms

Units: 4

Within general and special education, instruction of diverse students eligible for special education services or considered at-risk for school failure with evidence-based practices and service delivery that

meet federal and state requirements.

Prerequisites: Admission to M.S. Special Education program.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

SPED 601 - Educational Practices: Mild/Moderate Disabilities

Units: 4

Methods, practices, materials, media and technology to increase student learning across special and general education; instruction, intervention and adaptation within and across CCSSS curriculums. Strategies for designing and implementing evidence-based curricular and instructional practices in academic and related areas.

Prerequisites: Admission to M.S. Special Education program.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

SPED 602 - Evidence-based Practices: Moderate/Severe Disabilities

Units: 4

Education Specialist candidates in Moderate-Severe Disabilities learn to instruct and support the diverse range of students through general and special education evidence-based curricular and instructional practices in behavioral, academic and related domains.

Prerequisites: Admission to M.S. Special Education program.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

SPED 603 - Teaming, Collaborative Educational Processes and Transition Services

Units: 4

Prepares prospective Education Specialists and other professionals to provide well-coordinated, collaborative, inclusive special education services through research-based trans-disciplinary team planning, effective management, consultative, cooperative teaching practices and innovative service delivery approaches with general education, specialists, community agencies and families.

Prerequisites: Admission to M.S. Special Education program.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

SPED 604 - Individual and School-Wide Behavioral Needs, Mental Health & Positive Supports

Units: 4

Prepares Specialists and other professionals to provide coordinated educational services through evidence-based strategies: individual and school-wide Positive Behavior Intervention and Support (PBIS); social emotional learning as prevention and intervention; classroom management; mental health intervention and community resources to support students/families.

Prerequisites: Admission to M.S. Special Education program.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

SPED 605 - Communication and Technology

Units: 4

Evidence based social, communication, environmental, and instructional strategies to meet the needs of students with disabilities to enhance participation in home, school and community activities. Use of assistive technology and augmentative/ alternative communication systems and non-technology based practices.

Prerequisites: Admission to M.S. Special Education program.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

SPED 606 - Assessment: Students with Mild/Moderate Disabilities

Units: 4

Presentation and application of assessment practices that consider the diverse backgrounds and needs of students being assessed and the nature of information being gathered. Includes formal and informal assessment practices, analysis of data, IEP goals, instructional planning, and service delivery.

Prerequisites: Admission to M.S. Special Education program.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

SPED 607 - Curriculum and Instruction: Students with Mild/Moderate Disabilities

Units: 4

Curriculum and instructional strategies to meet the academic, social, behavioral and executive functioning needs of students with mild/moderate disabilities. Coordination of diagnostic/prescriptive evaluation, curriculum, instruction, and transition to increase self-efficacy and positive learning outcomes for students.

Prerequisites: Admission to M.S. Special Education program.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

SPED 608 - Instruction and Behavioral Supports and Strategies: Moderate-Severe Disabilities

Units: 4

Prepares prospective Education Specialists with evidence-based tools and instructional techniques to facilitate M/S students' access, active participation and positive learning outcomes with general education peers across Common Core curriculum, related subjects and individualized need areas.

Prerequisites: Admission to M.S. Special Education program.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

SPED 609 - Advanced Assessment and Curriculum: Moderate-Severe Disabilities

Units: 4

Prepares prospective Education Specialists in Moderate-Severe Disabilities with evidence-based tools, strategies and materials for needs assessment and progress across academic and basic skills (e.g., communication, motor and social behavior) and systematic instruction across these key curricular domains.

Prerequisites: Admission to M.S. Special Education program.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

SPED 610 - Research and Professional Practices

Units: 4

Intersection of research, best practices, and strategies for developing as a professional educator. Survey of research philosophy and methods for conducting studies in diverse settings

Prerequisites: Admission to M.S. Special Education program.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

SPED 611 - Fieldwork I: Mild/Moderate Disabilities

Units: 3

Part-time supervised, mentored, fieldwork experience in a clinical setting. Candidates demonstrate competencies in assessment, curriculum and instruction, communication, collaboration, mild-moderate disabilities, positive behavior support, staff development, case management and other responsibilities as an education specialist.

Prerequisites: Admission to M.S. Special Education program.

Possible Instructional Methods: *Entirely On-ground.*

Grading: CR/NC grading only.

SPED 612 - Fieldwork II: Mild/Moderate Disabilities

Units: 3

Part-time supervised, mentored, fieldwork experience in a clinical setting. Candidates demonstrate competencies in assessment, curriculum and instruction, communication, collaboration, mild-moderate disabilities, positive behavior support, staff development, case management and other responsibilities as an education specialist

Prerequisites: Admission to M.S. Special Education program.

Possible Instructional Methods: *Entirely On-ground.*

Grading: CR/NC grading only.

SPED 613 - Final Student Teaching: Mild/Moderate Disabilities

Units: 6

Full-time supervised, mentored, fieldwork experience in a clinical setting. Candidates demonstrate competencies in assessment, curriculum and instruction, communication, collaboration, mild-moderate disabilities, positive behavior support, staff development, case management and other responsibilities as an education specialist

Prerequisites: Admission to M.S. Special Education program.

Possible Instructional Methods: *Entirely On-ground.*

Grading: CR/NC grading only.

SPED 615 - Fieldwork I: Moderate-Severe Disabilities

Units: 3

Links theory and practice within supervised fieldwork in a public school setting for developing candidates' specialized skills and practices, including assessment, systematic instruction, positive behavior supports/intervention, Universal Design for Learning, adaptation and modification, and team collaboration.

Prerequisites: Admission to M.S. Special Education program.

Possible Instructional Methods: *Entirely On-ground.*

Grading: CR/NC grading only.

SPED 616 - Fieldwork II: Moderate-Severe Disabilities

Units: 3

Supervised fieldwork with Master Teacher in inclusive classroom settings. Occurs with different age group than first fieldwork and across range of M/S disability students. Enhances competence in assessment, instruction, curriculum, collaboration, positive behavior support and intervention.

Prerequisites: Admission to M.S. Special Education program.

Possible Instructional Methods: *Entirely On-ground.*

Grading: CR/NC grading only.

SPED 617 - Final Student Teaching: Moderate-Severe Disabilities

Units: 6

Full-time, supervised student teaching with Master Teacher in public school, successfully demonstrating specialized skills and practice of all Teaching Performance Expectations and credential standards in assessment, systematic instruction, positive behavior intervention, communication, collaboration, adaptation, caseload management, and personnel development.

Prerequisites: Admission to M.S. Special Education program.

Possible Instructional Methods: *Entirely On-ground.*

Grading: CR/NC grading only.

SPED 693 - Capstone Research Project

Units: 4

Intersection of research, best practices, and strategies for developing as a professional educator. Survey of research philosophy and methods for conducting studies in diverse settings; completion of culminating project requirement for the Master of Science Degree and Education Specialist Credential.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

SPED 695 - Special Education Internship

Units: 2

Supervised, mentored fieldwork intern teaching in a clinical setting. Interns demonstrate competencies in assessment, curriculum and instruction, communication, collaboration, mild-moderate disabilities, positive behavior support, staff development, case management and other responsibilities as an education specialist.

Prerequisites: Department consent.

Possible Instructional Methods: *Entirely On-ground.*

Grading: CR/NC grading only.

SPED 697 - Issues in Special Education

Units: 2

Readings, discussion, and research on contemporary and/or significant issues, policies and practices in special education-moderate-severe disabilities. Candidates investigate areas of interest and professional development content with a focus on diversity and multifaceted needs of students/families and school communities.

Prerequisites: Admission to M.S. Special Education program.

Repeatability: May repeat course four times for a maximum of 8 units

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

Engineering

ENGR 200 - Introduction to Engineering and Design

Units: 3 ; GE/GR Area: Writing II

Engineering history, disciplines and professions, current global issues in engineering. Engineering design process, visualization, and graphics. Introduction to CAD, and computer tools such as spreadsheet, mathematics software, and presentation software. Teamwork skills, technical communication, engineering ethics, and critical thinking. *Discussion Units: 2; Lab Units: 1*

Equivalent Quarter Course: ENGR 1011.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

G.E./G.R. Area Satisfied: *Writing II*

ENGR 210 - Manufacturing Materials and Processes

Units: 4

Mechanical, thermal and electrical properties of engineering materials, including metal alloys, ceramics, semiconductors, polymers, and composites. Phase diagrams, heat treatments, materials selection. Traditional, non-traditional, and advanced manufacturing processes. Manufacturing process selection. *Lecture Units: 3; Lab Units: 1*

Prerequisites: CHEM 110 and MATH 130.

Equivalent Quarter Course: ENGR 2060 and ENGR 2070.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

ENGR 215 - Computational Methods in Engineering

Units: 3

Computational algorithms used in solving engineering problems. Use of computer tools for solving a system of equations, matrix manipulations, numerical integration and differentiation, optimization, and simulation for engineering applications. *Lecture Units: 2; Lab Units: 1*

Prerequisites: MATH 131.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

ENGR 220 - Statics

Units: 3

An intermediate application of Newtonian mechanics to solve engineering problems. Fundamental concepts of mechanics, including resultants of force systems, free-body diagrams, equilibrium of rigid bodies, and analyses of structures.

Prerequisites: PHYS 135.

Equivalent Quarter Course: INDE 3101.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

ENGR 221 - Dynamics

Units: 3

Kinematics and kinetics of particles and rigid bodies with applications of Newton's second law and the principles of work-energy and impulse momentum. Analysis of structural members and systems subject to dynamic loads.

Prerequisites: ENGR 220.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

ENGR 230 - Electric Circuits I

Units: 3

A study of fundamental circuit laws and components, and techniques for analog circuit analysis. Voltage, current, power, Ohm's Law, Kirchoff's laws, node voltage and mesh current analysis, op-amps, capacitors, inductors, RC, RL, RLC circuits. Impedance, frequency response, and Bode. *Lecture Units: 2; Lab Units: 1*

Prerequisites: PHYS 136 and MATH 210.

Equivalent Quarter Course: ENGR 2010.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

ENGR 310 - CAD/CAM Graphics

Units: 3

Use of Computer Aided Design software tools to correctly specify the designs of system components for manufacture using all major methods. A laboratory component will allow students to fabricate components they have designed.

Prerequisites: ENGR 220.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

ENGR 320 - Engineering Economics

Units: 3

Cost estimations, time value of money, cash flow diagrams, compound interest, economic equivalence, pay back periods, net present values, net annual equivalence, rate of return, depreciations, income taxes, gain taxes, and inflation. Economic analysis and decision making on engineering alternatives.

Prerequisites: MATH 130.

Equivalent Quarter Course: INDE 3140.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

ENGR 400A - Historical Architectural Virtual Prototyping I

Units: 4 ; G.E./G.R. Area: D4

Design, development and creation of business plans and interactive virtual prototypes of historical architectural buildings and structures with innovative technology to improve the historical preservation of such structures and enhance community understanding of historical architecture. *Lecture Units: 2; Lab Units: 2*

Prerequisites: Completion of GE areas A1, A2, A3 and B4.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

G.E./G.R. Area Satisfied: *D4 - Upper Division Social Sciences*

ENGR 400B - Historical Architectural Virtual Prototyping II

Units: 4

Advanced design, development and creation of business plans and interactive virtual prototypes of historical architectural buildings and structures with innovative technology to improve the historical preservation of such structures and enhance community understanding of historical architecture. *Lecture Units: 2; Lab Units: 2*

Prerequisites: ENGR 400A.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

Engineering: Graduate

ENGR 610 - Analytical Methods In Engineering Management

Units: 3

An application-oriented course with emphasis on quantitative techniques in engineering management. Topics include: theory and applications of linear programming including formulation, simplex method, duality, integer programming formulation, branch-and-bound and network flow problems, decision-making under uncertainty, risk analysis and multi-criteria decision-making.

Credit Restrictions: Not open to students with credit for INDE 360.

Equivalent Quarter Course: ENGR 6400.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

ENGR 615 - Finance for Engineers

Units: 3

Basics of financial statements, inventories, long-term productive assets, bonds and other liabilities, stockholders equity, and statement of changes in financial position. Also corporate governance, performance analysis, capital investment decisions, cost of capital, long and short term financial policy are covered.

Credit Restrictions: Not open to students with credit for FIN 6215.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

ENGR 620 - System Modeling with Simulation

Units: 3

Analyze, improve and design stochastic processes of manufacturing and service systems by using computer simulation techniques. Identify, define and solve stochastic process problems using queuing theory. Use of computer simulations to measure and improve system performance, and optimize system designs.

Prerequisites: INDE 330.

Credit Restrictions: Not open to students with credit for INDE 420.

Equivalent Quarter Course: ENGR 5200.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

ENGR 630 - Quality and Reliability Management

Units: 3

Quality and reliability techniques and applications for analyzing system performance, identifying root-causes, and improving quality and reliability. Topics include 6-Sigma, ANOVA, design of experiments, statistical process control charts, process capability indexes, system reliability, Pareto charts, process flow charts, acceptance sampling.

Prerequisites: INDE 330.

Equivalent Quarter Course: ENGR 6300.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

ENGR 640 - Engineering Sustainable Supply Chains

Units: 3

Implementation of manufacturing resource planning and control systems including demand forecasting, production planning, master scheduling, bill-of-material, and inventory master file. Capacity requirements planning and shop floor control. Introduction of sustainability concepts needed to design and produce new products and processes. *Lecture Units: 2; Lab Units: 1*

Credit Restrictions: Not open to students with credit for INDE 440.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

ENGR 650 - Project Management

Units: 3

Holistic approach to project management. Planning, scheduling, organizing, managing projects i.e., product development, construction, information systems, new business, and special events. Mastery of key tools give you an advantage in the marketplace. *Lecture Units: 2; Activity Units: 1*

Equivalent Quarter Course: ENGR 6200.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

ENGR 660 - Sustainable Product and Process Design

Units: 3

Planning and execution of new product-process design and manufacture. Introduction of innovation, sustainability, and methods covering material selection, design-build-test, reverse engineering, objective trees, function-means trees, and functional maps provide students with tools needed to design and sustainably produce new products.

Equivalent Quarter Course: ENGR 5180.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

ENGR 670 - Design and Management of Human Work Systems

Units: 3

Qualitative and quantitative techniques to maximize labor productivity, employee well-being, and organizational performance. Topics include worker motivation and incentive systems, leadership, worker autonomy, and management of collaborative organizational structures including quality control circles, total productive maintenance teams, and socio-technical systems.

Credit Restrictions: Not open to students with credit for INDE 4280.

Equivalent Quarter Course: ENGR 5280.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

ENGR 680 - Engineering Systems Modeling

Units: 3

Systems approach to problem identification, description, modeling, and resolutions derived by traditional optimization. Approaches for the planning, manufacturing, deployment, product use and disposal cycles are presented. The design criteria, specifications, analysis, and verification through system life cycle is discussed to ensure that a system's functional, interface, performance, physical, cost and other quality characteristics. These factors are balanced to meet the needs of system stakeholders. *Lecture Units: 2; Activity Units: 1*

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

ENGR 690 - Independent Study

Units: 3

Selected research topics agreed on between the student and the faculty supervising the course. A plan of work completion must approved prior to proceeding with the project. Progress reports, a final report, and a final presentation to the committee.

Prerequisites: Department consent and minimum 3.0 GPA.

Equivalent Quarter Course: ENGR 6900.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

ENGR 693A - Applied Research in Engineering Management

Units: 3

An integrative capstone experience in which students conduct a literature search, develop a research proposal, complete a capstone graduate individual project and write a comprehensive project report encompassing areas covered in their course work.

Prerequisites: Department consent and completion of University Writing Skills Requirement (UWSR).

Equivalent Quarter Course: ENGR 6800.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

ENGR 693B - Master's Project Capstone

Units: 3

Completion of a research or applied project, a written report submitted to the department, which specifies its format. Project supervised by a faculty member. Oral defense may be required. A faculty member supervises the project. Oral defense may be required.

Prerequisites: Department consent and completion of University Writing Skills Requirement (UWSR).

Equivalent Quarter Course: ENGR 6899.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

ENGR 697 - Issues in Engineering Management

Units: 3

Readings, discussion, and research on contemporary and/or significant issues in engineering.

Prerequisites: Department consent.

Equivalent Quarter Course: ENGR 6999.

Repeatability: May be repeated for credit for a maximum of 6 units.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

English: American/Global Literature

ENGL 328 - Latina/o Literature

Units: 4 ; G.E./G.R. Area: C4

Literature of all genres written by Latina/o authors that reflects diverse cultural backgrounds and experiences, and that explores themes such as immigration, class, gender, and sexuality.

Prerequisites: Completion of GE areas A1, A2, A3 and B4.

Equivalent Quarter Course: ENGL 3680.

Possible Instructional Methods: *Entirely On-ground, Entirely On-line, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F or CR/NC (student choice).

G.E./G.R. Area Satisfied: *C4 - Upper Division Arts or Humanities*

English: American Literature

ENGL 220 - Immigration and Migration in American Literature

Units: 4 ; G.E./G.R. Area: C2

Literary works that represent the social, political, and cultural effects of immigration and migration in the U.S.

Equivalent Quarter Course: ENGL 2600.

Possible Instructional Methods: *Entirely On-ground, Entirely On-line, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F or CR/NC (student choice).

G.E./G.R. Area Satisfied: *C2 - Lower Division Humanities*

ENGL 320 - Major Works of American Literature

Units: 4

Selected major works of poetry, drama, nonfiction, and fiction from American literature of all periods, colonial to contemporary.

Equivalent Quarter Course: ENGL 3600.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

ENGL 321 - American Indian Literature

Units: 4 ; G.E./G.R. Area: C4

American Indian myth, legend, and folklore, as well as nineteenth-, twentieth-, and twenty-first century literature by American Indians.

Prerequisites: Completion of GE areas A1, A2, A3 and B4.

Equivalent Quarter Course: ENGL 3660.

Possible Instructional Methods: *Entirely On-ground, Entirely On-line, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F or CR/NC (student choice).

G.E./G.R. Area Satisfied: *C4 - Upper Division Arts or Humanities*

ENGL 322 - African-American Literature Before 1945

Units: 4 ; G.E./G.R. Area: C4; Social Justice

A survey of writings by people of African descent living in North America from the Colonial era through the 19th century. Covers early poetry, autobiographies, fiction, drama, and essays that form the basis of an African-American literary tradition.

Prerequisites: Completion of GE areas A1, A2, A3 and B4.

Equivalent Quarter Course: ENGL 3691.

Possible Instructional Methods: *Entirely On-ground, Entirely On-line, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F or CR/NC (student choice).

G.E./G.R. Area Satisfied: *C4 - Upper Division Arts or Humanities, Overlay - Social Justice*

ENGL 323 - African-American Literature After 1945

Units: 4 ; G.E./G.R. Area: C4; Diversity

A survey of writings by African Americans from the middle of the 20th century through the Black Arts Movement. Identifies major authors in a variety of genres and provides historical contexts for literary movements from the period.

Strongly Recommended Preparation: ENGL 200.

Prerequisites: Completion of GE areas A1, A2, A3 and B4.

Equivalent Quarter Course: ENGL 3692.

Possible Instructional Methods: *Entirely On-ground, Entirely On-line, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F or CR/NC (student choice).

G.E./G.R. Area Satisfied: *C4 - Upper Division Arts or Humanities, Overlay - Diversity*

ENGL 324 - American Women's Literature

Units: 4 ; G.E./G.R. Area: C4; Social Justice

Literary works written by U. S. women of diverse ethnic and cultural backgrounds that explore feminist themes such as class, gender, sexuality and that convey the private as well as public stories of women's lives.

Prerequisites: Completion of GE areas A1, A2, A3 and B4.

Equivalent Quarter Course: ENGL 3650.

Possible Instructional Methods: *Entirely On-ground, Entirely On-line, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F or CR/NC (student choice).

G.E./G.R. Area Satisfied: *C4 - Upper Division Arts or Humanities, Overlay - Social Justice*

ENGL 325 - Asian-American Literature

Units: 4 ; G.E./G.R. Area: C4; Diversity

Literature of different genres by Asian-American authors that reflects diverse cultural backgrounds and experiences, and that explores themes such as immigration, class, gender, and sexuality.

Prerequisites: Completion of GE areas A1, A2, A3 and B4.

Equivalent Quarter Course: ENGL 3670.

Possible Instructional Methods: *Entirely On-ground, Entirely On-line, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F or CR/NC (student choice).

G.E./G.R. Area Satisfied: *C4 - Upper Division Arts or Humanities, Overlay - Diversity*

ENGL 421 - 19th-Century American Literature

Units: 4

Historical survey of American literature before 1900.

Equivalent Quarter Course: ENGL 4635 or ENGL 4636.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

ENGL 422 - 20th- and 21st-Century American Literature

Units: 4

Historical survey of American literature, 1900 to the present.

Equivalent Quarter Course: ENGL 4637.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

ENGL 423 - Ethnic American Women's Literature After 1900

Units: 4

Selected authors and topics in ethnic American women's fiction, autobiography, drama, and/or poetry by African-American, Latina, American Indian, and Asian-American writers.

Equivalent Quarter Course: ENGL 4650.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

ENGL 424 - American Fiction Before 1900

Units: 4

Selected novels and short fiction by 19th-century authors.

Equivalent Quarter Course: ENGL 4860.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

ENGL 425 - American Novel After 1900

Units: 4

Selected American novels, 1900 to the present.

Equivalent Quarter Course: ENGL 4870 or ENGL 4874 or ENGL 4876.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

ENGL 444 - Short Story

Units: 4

Development of the modern short story in American and Europe.

Equivalent Quarter Course: ENGL 4840.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

ENGL 445 - Ethnic American Autobiography

Units: 4

Selected memoirs and autobiographical writings by African-American, Latino/a, American Indian, Asian-

American, and other ethnic American writers.

Equivalent Quarter Course: ENGL 4660.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

English: British Literature

ENGL 309 - Major Works of British Literature

Units: 4

Study major works in verse, drama, and prose fiction, selected from British literature: medieval to modern periods.

Prerequisites: ENGL 101 or ENGL 102.

Equivalent Quarter Course: ENGL 3400.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

ENGL 332 - Chaucer

Units: 4

Close reading and analysis of the poetical works of Geoffrey Chaucer: Canterbury Tales, Troilus and Criseyde, Minor Poems.

Equivalent Quarter Course: ENGL 4151.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

ENGL 411 - Shakespeare I

Units: 4 ; G.E./G.R. Area: C4

A survey of representative early plays and poems; dramatic conventions of Renaissance theater' Renaissance intellectual background; Elizabethan genres.

Prerequisites: Completion of GE areas A1, A2, A3 and B4.

Equivalent Quarter Course: ENGL 4251.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

G.E./G.R. Area Satisfied: *C4 - Upper Division Arts or Humanities*

ENGL 412 - Shakespeare II

Units: 4 ; G.E./G.R. Area: C4

A survey of representative later plays; dramatic conventions of Renaissance theater; Renaissance

intellectual background; Elizabethan and Jacobean genres.

Prerequisites: Completion of GE areas A1, A2, A3 and B4.

Equivalent Quarter Course: ENGL 4251.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

G.E./G.R. Area Satisfied: *C4 - Upper Division Arts or Humanities*

ENGL 413 - Milton

Units: 4

A selection of major works drawn from Milton's poetry and selected prose.

Equivalent Quarter Course: ENGL 4260.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

ENGL 414 - Restoration and 18th-Century British Literature

Units: 4

Historical survey of British literature from the Restoration to 1800.

Equivalent Quarter Course: ENGL 4325.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

ENGL 415 - 19th-Century British Literature

Units: 4

Historical survey of British literature before 1900.

Equivalent Quarter Course: ENGL 4411 or ENGL 4412.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

ENGL 416 - British Novel before 1800

Units: 4

Selected British novels, 1700 to 1800.

Equivalent Quarter Course: ENGL 4831.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

ENGL 417 - British Novel 1800-1900

Units: 4

Selected British novels, 1800-1900.

Equivalent Quarter Course: ENGL 4832.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

ENGL 418 - British Novel After 1900

Units: 4

Selected British novels from the innovations of modernism in 1900, to the present.

Strongly Recommended Preparation: ENGL 204.

Equivalent Quarter Course: ENGL 4833.

Possible Instructional Methods: *Entirely On-ground, Entirely On-line, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F grading only.

ENGL 440 - English Drama to 1642

Units: 4

A selection of British dramatic works from the beginnings to the closing of the theaters.

Equivalent Quarter Course: ENGL 4810.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

English: Education

ENGL 398 - Internship

Units: 1-3

Introduction to the internship experience; integration of the academic program with career aspirations; emphasis on internship readiness and preparation for professional success.

Prerequisites: Department consent and minimum 2.0 GPA.

Credit Restrictions: No more than 6 units may be applied to the English major; no more than 3 units may be applied to the English minor.

Equivalent Quarter Course: ENGL 3898.

Repeatability: May be repeated with department consent for a maximum of 6 units.

Possible Instructional Methods: *Entirely On-ground.*

Grading: CR/NC grading only.

ENGL 460 - Seminar in English Education

Units: 4

The integration of language, literature, and composition studies in the secondary-school curriculum, with on-site observation and supervised group discussion

Equivalent Quarter Course: ENGL 4000.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

English: Film

ENGL 240 - Introduction to American Film

Units: 4 ; G.E./G.R. Area: C2

Study of American cinema that introduces students to the language of film analysis and to key figures, scripts, and films from the silent era, the Hollywood studio system, independent filmmakers, and contemporary film productions.

Equivalent Quarter Course: ENGL 2740 or ENGL 2745.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

G.E./G.R. Area Satisfied: *C2 - Lower Division Humanities*

ENGL 447 - Film Criticism

Units: 4

Study of films that focus on the work of U. S. and international writer-directors, emphasizing characterization, themes, cinematic techniques, and application of film theory and criticism.

Equivalent Quarter Course: ENGL 4745

Possible Instructional Methods: *Entirely On-ground, Entirely On-line, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F grading only.

English: Foundation

ENGL 100 - College Writing: Stretch I

Units: 3

First semester of a year-long course in writing for academic purposes, critical analysis, and argumentation.

Strongly Recommended Preparation: ENGL 109.

Prerequisites: ENGL 109 required for students in Category IV.

Credit Restrictions: Not for English major credit.

Possible Instructional Methods: *Entirely On-ground.*

Grading: ABC/NC grading only.

ENGL 101 - College Writing: Stretch II

Units: 3 ; G.E./G.R. Area: A2

An introduction to writing for academic purposes, critical analysis, and argumentation. Must complete course with a grade of "C-" or better in order to earn General Education credit.

Strongly Recommended Preparation: ENGL 109.

Prerequisites: ENGL 100.

Credit Restrictions: Not for English major credit.

Equivalent Quarter Course: ENGL 1001.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

G.E./G.R. Area Satisfied: *A2 - Lower Division Written Communication*

ENGL 102 - Accelerated College Writing

Units: 3 ; G.E./G.R. Area: A2

An introduction to writing for academic purposes, critical analysis, and argumentation. Must complete course with a grade of "C-" or better in order to earn General Education A2 credit.

Strongly Recommended Preparation: ENGL 109.

Prerequisites: Category II placement or Category III with concurrent enrollment in English 109.

Credit Restrictions: Not for English major credit.

Equivalent Quarter Course: ENGL 1001.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

G.E./G.R. Area Satisfied: *A2 - Lower Division Written Communication*

ENGL 103 - College Writing: Stretch I (English for Speakers of Other Languages)

Units: 3

First semester of year-long course in writing for academic purposes, critical analysis, and argumentation. Designed with English for Speakers of Other Languages pedagogy for multilingual students.

Strongly Recommended Preparation: ENGL 109.

Prerequisites: ENGL 109 required for students in Category IV.

Credit Restrictions: Not for English major credit.

Possible Instructional Methods: *Entirely On-ground.*

Grading: ABC/NC grading only.

ENGL 104 - College Writing: Stretch II (English for Speakers of Other Languages)

Units: 3 ; G.E./G.R. Area: A2

Second semester of year-long course in writing for academic purposes, critical analysis, and argumentation. Designed with English for Speakers of Other Languages pedagogy for multilingual students. Earn "C-" or better for A2 general education credit in written communication.

Strongly Recommended Preparation: ENGL 109.

Prerequisites: ENGL 103.

Credit Restrictions: Not for English major credit.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

G.E./G.R. Area Satisfied: A2 - *Lower Division Written Communication*

ENGL 105 - College Reading for Fluency

Units: 3 ; G.E./G.R. Area: C2

Read multiple works of fiction and non-fiction to build English language fluency, academic vocabulary, learning strategy repertoire, and cultural background knowledge for the U.S. context. Enrollment limited to first-year international students.

Equivalent Quarter Course: ENGL 1020.

Repeatability: May be repeated for credit for a maximum of 6 units.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

G.E./G.R. Area Satisfied: C2 - *Lower Division Humanities*

ENGL 106 - Academic Vocabulary Development

Units: 3 ; G.E./G.R. Area: C1

Vocabulary study, including multiple meanings in context, word-formation, related grammatical features, historical changes, and idiomatic and other usage considerations. Emphasis on academic English, but colloquial vocabulary also studied. Course is part of international student cluster for C3 general education credit.

Equivalent Quarter Course: ENGL 2000.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

G.E./G.R. Area Satisfied: C1 - *Lower Division Arts*

ENGL 109 - College Writing Lab

Units: 1

Writing lab for students to use feedback from faculty and peers in order to identify and address writing challenges.

Strongly Recommended Preparation: Concurrent enrollment in one of the following courses: ENGL 100,

ENGL 101, ENGL 102, ENGL 103, ENGL 104, ENGL 200 or ENGL 201.

Repeatability: May be repeated for credit for a maximum of 4 units.

Possible Instructional Methods: *Entirely On-ground.*

Grading: CR/NC grading only.

ENGL 200 - College Writing II

Units: 3 ; G.E./G.R. Area: Writing II

Further work in expository writing with emphasis on argumentation and persuasion. Introduction to the preparation and writing of the research paper.

Prerequisites: One of: ENGL 101, ENGL 102, ENGL 104.

Credit Restrictions: Not for English major credit.

Equivalent Quarter Course: ENGL 1002.

Possible Instructional Methods: *Entirely On-ground, Entirely On-line, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F or CR/NC (student choice).

G.E./G.R. Area Satisfied: *Writing II*

ENGL 201 - College Writing II (English for Speakers of Other Languages)

Units: 3

Further work in expository writing with emphasis on argumentation and persuasion. Introduction to the preparation and writing of the research paper. ESOL sections are specifically designed for international and other multilingual students.

Strongly Recommended Preparation: ENGL 109.

Prerequisites: One of: ENGL 101, ENGL 102, ENGL 104.

Credit Restrictions: Not for English major credit.

Equivalent Quarter Course: ENGL 1002.

Possible Instructional Methods: *Entirely On-ground, Entirely On-line, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F or CR/NC (student choice).

ENGL 204 - Writing About Literature

Units: 4 ; G.E./G.R. Area: C2

Theory and practice of critical writing based on selected readings of major literary works.

Equivalent Quarter Course: Any two from: ENGL 2030, ENGL 2040, ENGL 2050

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

G.E./G.R. Area Satisfied: *C2 - Lower Division Humanities*

ENGL 490 - Independent Study

Units: 1-4

Independent study under the supervision a department faculty member.

Prerequisites: Department consent and minimum 2.0 GPA.

Credit Restrictions: No more than 12 units of independent study may be applied in the major department and 8 units in other departments to a baccalaureate degree.

Equivalent Quarter Course: ENGL 4900.

Repeatability: May be repeated for credit, with department consent, for a total of 12 units.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

English: Global Literature

ENGL 310 - Medieval Literature

Units: 4

Selected readings in medieval literature in translation: epic, romance, drama, lyric, and satire.

Equivalent Quarter Course: ENGL 3710.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

ENGL 311 - Dante's Worlds

Units: 4

Study of Dante's Divine Comedy , especially in relation to its main literary, mystical, and historical themes.

Equivalent Quarter Course: ENGL 3715 or ENGL 3716.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

ENGL 327 - LGBT Literature and Queer Theory

Units: 4 ; G.E./G.R. Area: C4; Social Justice

History and development of LGBT literature, the development and application of queer literary theory, and the role of literature in LGBT movements for equity and justice.

Prerequisites: Completion of GE areas A1, A2, A3 and B4.

Equivalent Quarter Course: ENGL 3770.

Possible Instructional Methods: *Entirely On-ground, Entirely On-line, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F or CR/NC (student choice).

G.E./G.R. Area Satisfied: *C4 - Upper Division Arts or Humanities, Overlay - Social Justice*

ENGL 330 - Classical Literature

Units: 4

Selected readings in classical literature in translation: epic, drama, lyric, and satire.

Equivalent Quarter Course: ENGL 3700.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

ENGL 331 - Global World Literature: Antiquity to the Early Modern World

Units: 4

Detailed study of global world literatures; classics from Japan, Africa, Mesoamerica, India, and Western Europe will be studied.

Equivalent Quarter Course: ENGL 3999.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

ENGL 335 - Global Literature after 1900

Units: 4

Major works of global literature in English from 1900 to the present that reflect literary movements such as modernism and postmodernism, or genres such as colonial and post-colonial literature.

Strongly Recommended Preparation: ENGL 204.

Equivalent Quarter Course: ENGL 3760.

Possible Instructional Methods: *Entirely On-ground, Entirely On-line, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F grading only.

ENGL 341 - The Gothic

Units: 4

British Gothic literature, 1700-2000.

Equivalent Quarter Course: ENGL 3745.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

ENGL 342 - Environmental Literature

Units: 4 ; G.E./G.R. Area: C4; Sustainability

Study of divergent and contested literary representations of ecological landscapes and environments, and of how literature that represents ecological harm across race, ethnicity, class and cultural difference

influences environmentalism and environmental justice movements.

Prerequisites: Completion of GE areas A1, A2, A3 and B4.

Possible Instructional Methods: *Entirely On-ground, Entirely On-line, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F or CR/NC (student choice).

G.E./G.R. Area Satisfied: *C4 - Upper Division Arts or Humanities, Overlay - Sustainability*

ENGL 343 - Detective Fiction

Units: 4

British/American detective fiction, 1800 to the present.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

ENGL 345 - Comics and Graphic Novels

Units: 4 ; G.E./G.R. Area: C4

Study of the history, structure, and emerging patterns of the comic book and graphic novel, a hybrid narrative form that blends literary and visual components. Analysis of primary sources and graphic novel criticism that explores the genre's cultural impact.

Strongly Recommended Preparation: Engl 204.

Prerequisites: Completion of GE areas A1, A2, A3 and B4.

Equivalent Quarter Course: ENGL 3850.

Possible Instructional Methods: *Entirely On-ground, Entirely On-line, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F or CR/NC (student choice).

G.E./G.R. Area Satisfied: *C4 - Upper Division Arts or Humanities*

ENGL 430 - Bible as Literature

Units: 4

Examination of major events, characters, themes and literary forms of the Bible.

Equivalent Quarter Course: ENGL 4710.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

ENGL 431 - World Mythology

Units: 4

Cosmologies and cosmogonies; creation and destruction myths; heroes and tricksters; theory and its application; oral, visual, and literary works drawn from Europe, North America, Mesoamerica, Egypt, Africa, the Orient, the Near East, and the Mediterranean.

Equivalent Quarter Course: ENGL 4720.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

ENGL 434 - Global Short Story

Units: 4

Reading and analysis of short stories from around the world, classic and contemporary.

Equivalent Quarter Course: ENGL 4845.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

ENGL 435 - Global Women's Literature

Units: 4

Selected works and genres of global literature in English written by women from different historical periods, nations, and cultures.

Strongly Recommended Preparation: ENGL 204.

Equivalent Quarter Course: ENGL 4450.

Possible Instructional Methods: *Entirely On-ground, Entirely On-line, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F grading only.

ENGL 436 - Contemporary Global Novel

Units: 4

Selected contemporary novels in English written by authors from different national, cultural, and social backgrounds and representative of international literature.

Strongly Recommended Preparation: ENGL 204.

Equivalent Quarter Course: ENGL 4876.

Possible Instructional Methods: *Entirely On-ground, Entirely On-line, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F grading only.

ENGL 446 - Modern and Contemporary Poetry

Units: 4

A study of representative Anglophone poets from 1914 to present.

Equivalent Quarter Course: ENGL 4827.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

ENGL 462 - Children's Literature before 1900

Units: 4

Children's literature before 1900, with attention to social and cultural attitudes about childhood that influenced the history and development of the genre.

Strongly Recommended Preparation: ENGL 204.

Equivalent Quarter Course: ENGL 4740 or ENGL 4743.

Possible Instructional Methods: *Entirely On-ground, Entirely On-line, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F grading only.

ENGL 463 - Children's Literature after 1900

Units: 4

Children's and young adult literature from the 20th and 21st centuries of different genres and themes, reflecting social, cultural, and ethnic diversity.

Strongly Recommended Preparation: ENGL 204.

Equivalent Quarter Course: ENGL 4741.

Possible Instructional Methods: *Entirely On-ground, Entirely On-line, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F grading only.

English: Graduate

ENGL 600 - Introduction to Graduate Studies

Units: 4

Introduction to the major research tools for the study of English; survey and evaluation of various methods in literary criticism. Required for M.A. in English.

Equivalent Quarter Course: ENGL 6001.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

ENGL 601 - The Literary Magazine

Units: 4

Practicum in which students learn about editing, layout, graphics, marketing, and distribution of a literary journal by working to produce the English Department's annual literary publication, *Arroyo Literary Review*, and by studying other university-based literary journals.

Prerequisites: Post-baccalaureate standing.

Equivalent Quarter Course: ENGL 6060.

Possible Instructional Methods: *Entirely On-ground.*

Grading: CR/NC grading only.

ENGL 602 - Graduate Workshop in Fiction

Units: 4

Writing of long and short fiction. Theory and analysis of the art of fiction. For the prospective professional writer.

Prerequisites: Post-baccalaureate standing.

Equivalent Quarter Course: ENGL 6070.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

ENGL 603 - Graduate Workshop in Poetry

Units: 4

Writing of poetry. Theory and analysis of the art of poetry. For the prospective professional writer.

Prerequisites: Post-baccalaureate standing.

Equivalent Quarter Course: ENGL 6075.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

ENGL 610 - Medieval Literature

Units: 4

Study of major works, authors, and literary topics of the medieval period; at least one work read in the original language.

Prerequisites: Post-baccalaureate standing.

Equivalent Quarter Course: ENGL 6100.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

ENGL 611 - Renaissance Literature

Units: 4

Study of major works, authors, and literary topics of the Tudor and Stuart periods.

Prerequisites: Post-baccalaureate standing.

Equivalent Quarter Course: ENGL 6215.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

ENGL 612 - Restoration and 18th-Century British Literature

Units: 4

Study of major works, authors, and literary topics of the Restoration and the 18th century.

Prerequisites: Post-baccalaureate standing.

Equivalent Quarter Course: ENGL 6350.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

ENGL 613 - 19th-Century British Literature

Units: 4

Study of major works, authors, and literary topics of the Romantic and Victorian periods.

Prerequisites: Post-baccalaureate standing.

Equivalent Quarter Course: ENGL 6405.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

ENGL 614 - 20th Century British Literature

Units: 4

Study of major British works, authors, and literary topics of the 20th century.

Prerequisites: Post-baccalaureate standing.

Equivalent Quarter Course: ENGL 6660.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

ENGL 620 - American Literature to 1900

Units: 4

Study of major works, authors, and literary topics before 1900.

Prerequisites: Post-baccalaureate standing and declared English major.

Equivalent Quarter Course: ENGL 6600.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

ENGL 621 - African-American Literature

Units: 4

Major African-American works, authors, and literary topics of the 19th and 20th centuries.

Prerequisites: Post-baccalaureate standing.

Equivalent Quarter Course: ENGL 6690.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

ENGL 622 - 20th Century American Literature

Units: 4

Study of major American works, authors, and literary topics of the 20th century.

Co-requisites: none

Equivalent Quarter Course: ENGL 6665.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

ENGL 623 - Ethnic American Literature

Units: 4

Multiethnic American works, authors, and literary topics of the 20th and 21st centuries.

Prerequisites: Post-baccalaureate standing.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

ENGL 630 - Women's Literature

Units: 4

Literary works written in English by women authors throughout the ages.

Prerequisites: Post-baccalaureate standing and declared English major.

Equivalent Quarter Course: ENGL 6650.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

ENGL 631 - Post-Colonial Literature

Units: 4

The politics and poetics of the literature of previously colonized peoples in the aftermath of European and American imperialism.

Prerequisites: Post-baccalaureate standing.

Equivalent Quarter Course: ENGL 6695.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

ENGL 632 - Children's Literature

Units: 4

Authors, genres, themes or movements in global and multicultural literature for children.

Prerequisites: Post-baccalaureate standing.

Equivalent Quarter Course: ENGL 6740.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

ENGL 633 - Environmental Literature

Units: 4

Global works of environmental literature.

Prerequisites: Post-baccalaureate standing.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

ENGL 640 - Studies in Literary Nonfiction

Units: 4

Historical and cultural perspectives on various forms of literary nonfiction.

Prerequisites: Post-baccalaureate standing.

Equivalent Quarter Course: ENGL 6670.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

ENGL 641 - Studies in Poetry and Poetics

Units: 4

Prosody and other formal issues; theory and practice of one poet or of a particular "school" or movement; relationships between poetry and cultural contexts.

Equivalent Quarter Course: ENGL 6675.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

ENGL 651 - Theory and Practice of Teaching Oral Skills to Adults

Units: 4

Focuses on current research as well as practical, innovative methods for teaching listening and speaking to adult English learners.

Prerequisites: Post-baccalaureate standing.

Equivalent Quarter Course: ENGL 6501.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

ENGL 652 - Phonology, Morphology and Lexical Semantics

Units: 4

Investigation of English phonetics and phonology as well as the structural composition of English words, with emphasis on processes of word formation and theories of meaning and meaning change. Analysis of errors made by ESL learners.

Prerequisites: Post-baccalaureate standing.

Equivalent Quarter Course: ENGL 6504.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

ENGL 653 - Theory and Practice of Teaching Reading to Adults

Units: 2

Focuses on current research as well as practical, innovative methods for teaching reading to adult English learners.

Prerequisites: Post-baccalaureate standing.

Equivalent Quarter Course: ENGL 6502.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

ENGL 654 - Supervised Tutoring and Teaching

Units: 2

Supervised internship with students in ESOL classes and tutorials. Course may be repeated, but repeated units may not count towards degree.

Prerequisites: Post-baccalaureate standing.

Equivalent Quarter Course: ENGL 6508 or ENGL 6608.

Repeatability: May be repeated for credit for a maximum of 10 units.

Possible Instructional Methods: *Entirely On-ground.*

Grading: CR/NC grading only.

ENGL 655 - Multilingualism and Second Language Acquisition

Units: 4

Focuses on theory and empirical research related to multilingualism as well as psycholinguistic processes, sociocultural contexts, and affective factors involved in the acquisition of a second language, with emphasis on adult learners of English.

Prerequisites: Post-baccalaureate standing.

Equivalent Quarter Course: ENGL 6503.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

ENGL 656 - Pedagogical Grammar

Units: 4

Examination of grammar needed by ESL students to develop their analytical and critical thinking skills, comprehension of ESL students' problems and challenges with learning grammar, and investigation of strategies, methods and approaches to teaching grammar effectively to ESL students.

Prerequisites: Post-baccalaureate standing.

Equivalent Quarter Course: ENGL 6510.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

ENGL 657 - Curriculum Design and Assessment in ESOL for Adult Learners

Units: 4

Focuses on best practices for ESOL curriculum development as well as methods of assessing language proficiency in adult learners. Examines adequacy of traditional evaluation methods as well as procedures in test construction and evaluation.

Prerequisites: Post-baccalaureate standing.

Equivalent Quarter Course: ENGL 6507.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

ENGL 660 - Introduction to Composition Studies Theory and Methods

Units: 4

Introduction to the field of Composition Studies and its contribution to theories and methods of teaching writing.

Prerequisites: Post-baccalaureate standing.

Equivalent Quarter Course: ENGL 6750.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

ENGL 661 - Theory and Practice of Teaching Literature

Units: 4

Theory and methods for teaching literary genres and periods appropriate for high school and community college literature courses.

Equivalent Quarter Course: ENGL 6770.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

ENGL 690 - Independent Study

Units: 1-4

Graduate students may apply no more than 6 units of independent study to a graduate degree.

Prerequisites: Graduate students with at least a 3.0 (B) grade point average in all courses in the field or department in which the Independent Study is to be taken.

Prerequisites: Department consent and minimum 3.0 GPA.

Equivalent Quarter Course: ENGL 6900.

Repeatability: May be repeated for credit for a maximum of 4 units.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

ENGL 691 - University Thesis

Units: 4

Development of a formal writing project for submission to the University in the specified format.

Supervision by a departmental faculty committee. (See also, "University Thesis Writing Guide," www.csueastbay.edu/thesiswritingguide.)

Prerequisites: Department consent.

Equivalent Quarter Course: ENGL 6910.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

ENGL 698 - Internship

Units: 1-3

Formal advanced work opportunities integrating the academic program with their career aspirations.

Integral advanced hands-on experience enhancing education and preparing for professional and personal success.

Prerequisites: Department consent and minimum 3.0 GPA.

Credit Restrictions: No more than 3 units may be applied to the English major.

Equivalent Quarter Course: ENGL 6898.

Repeatability: May be repeated with department consent for a maximum of 6 units.

Possible Instructional Methods: *Entirely On-ground.*

Grading: CR/NC grading only.

ENGL 699 - Departmental Thesis

Units: 2-4

Development of a research-based project for departmental submission. The written project, focusing on TESOL research or practice, includes a survey of relevant scholarly literature. Supervised by the TESOL coordinator. A portfolio M.A. TESOL program work also required.

Prerequisites: Department consent.

Equivalent Quarter Course: ENGL 6909.

Repeatability: May be repeated for credit for a maximum of 4 units.

Possible Instructional Methods: *Entirely On-ground.*

Grading: CR/NC grading only.

English: Language/Grammar

ENGL 350 - Study of Language

Units: 4

Theory of language and communication; role of language in the personal and social development of the fully "human" being; origins, development, acquisition, and diversity of language; nature and function of symbolic systems; phonology, morphology, syntax, orthography, sign language, and semantics.

Equivalent Quarter Course: ENGL 3005.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

ENGL 351 - Modern English Grammar

Units: 4

A traditional philological description of the structure of standard written English.

Equivalent Quarter Course: ENGL 3010.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

ENGL 352 - Introduction to Phonology

Units: 4

An introduction to the methods that linguists use to describe the sound systems of the languages of the world. Particular emphasis given to English sound patterns.

Equivalent Quarter Course: ENGL 3015.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

ENGL 353 - Linguistic History of the English Language

Units: 4

A linguistic approach to the origin and development of English, and its relations to cognate languages.

Equivalent Quarter Course: ENGL 3040.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

ENGL 354 - Advanced Studies in English Vocabulary

Units: 4

Advanced studies in English vocabulary: etymology, word-formation, and meaning-development. Particular attention to Latin and Greek etymology. Course offered in both classroom and online formats.

Equivalent Quarter Course: ENGL 3045.

Possible Instructional Methods: *Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F or CR/NC (student choice).

ENGL 355 - Language and Gender

Units: 4

Critical analysis and discussion of gender as it shapes and is reflected in spoken and written discourse.

Equivalent Quarter Course: ENGL 3050.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

ENGL 450 - Current Theories in Formal Grammar

Units: 4

Introduction to current theories in the study of formal grammar.

Equivalent Quarter Course: ENGL 4010.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

ENGL 451 - Language in the U.S.A.

Units: 4

Overview of the language situation in the U.S.A. Regional, social and ethnic dialects. Stylistic variation, Spanish-English code switching/mixing. African American language. Pidgin-creole varieties. Implications for teaching and learning.

Equivalent Quarter Course: ENGL 4040.

Possible Instructional Methods: *Entirely On-ground, Entirely On-line, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F grading only.

ENGL 497 - Topics in the Study of the English Language

Units: 4

Intensive study of a single aspect of the English language, or of a group of closely related aspects.

Equivalent Quarter Course: ENGL 4060.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

English: Literary Theory

ENGL 340 - Critical Theory of Literature

Units: 4

Examination and application of major critical approaches to literary analysis and interpretation.

Equivalent Quarter Course: ENGL 3080.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

English: Rhetoric and Composition

ENGL 251 - Grammar for Writers

Units: 4

Instruction in the structure and style of the standard, literary English sentence. Review of traditional grammar and usage, with attention to the integration of the sentence into its logical and rhetorical contexts.

Equivalent Quarter Course: ENGL 2005.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

ENGL 252 - Vocabulary Building

Units: 4

Designed to help students build varied, precise vocabularies; introduces the historical development and present-day resources of the English vocabulary; special attention given to Latin and Greek word-building prefixes, suffixes, and elements.

Equivalent Quarter Course: ENGL 2010.

Possible Instructional Methods: *Entirely On-ground, Entirely On-line, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F or CR/NC (student choice).

ENGL 300 - Writing for Proficiency

Units: 3

Practice writing skills to reach proficiency, determined by portfolio assessment, required for students to enroll in next level writing course and complete the University Writing Skills Requirement. Some students may demonstrate necessary proficiency for UWSR upon completion of ENGL 300.

Prerequisites: All of: ENGL 101, ENGL 102, ENGL 104, junior standing.

Credit Restrictions: Not for English major credit.

Equivalent Quarter Course: ENGL 3000.

Possible Instructional Methods: *Entirely On-ground, Entirely On-line, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: CR/NC grading only.

ENGL 301 - Writing for Proficiency (English for Speakers of Other Languages)

Units: 3

Practice in writing skills necessary for proficiency, determined by portfolio assessment, required to enroll in next level writing course and complete University Writing Skills Requirement. Designed for multilingual students. Some students may demonstrate proficiency for UWSR upon course completion.

Prerequisites: All of: ENGL 101, ENGL 102, ENGL 104, junior standing.

Credit Restrictions: Not for English major credit.

Equivalent Quarter Course: ENGL 3001.

Possible Instructional Methods: *Entirely On-ground.*

Grading: CR/NC grading only.

ENGL 302 - Discursive Writing

Units: 3 ; GE/GR Area: UWSR

Theory and practice of discursive writing; critical reading and evaluation of formal and informal prose.

Prerequisites: Junior standing or above; and either CR (credit) in ENGL 300 or ENGL 301 and a score of 7 on the first-tier portfolio; or score of 7 or better on the Writing Skills test; or satisfaction of the graduation writing assessment requirement (GWAR) at any CSU campus including the UWSR at Cal

State East Bay. Credit unavailable through challenge.

Credit Restrictions: Not for English major credit.

Equivalent Quarter Course: ENGL 3003.

Possible Instructional Methods: *Entirely On-ground, Entirely On-line, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F or CR/NC (student choice).

G.E./G.R. Area Satisfied: *University Writing Skills Requirement*

ENGL 303 - Advanced Expository Writing

Units: 4

An advanced course in the theory and practice of expository writing.

Equivalent Quarter Course: ENGL 3020.

Possible Instructional Methods: *Entirely On-ground, Entirely On-line, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F grading only.

ENGL 304 - Introduction to Technical and Professional Writing

Units: 4

Overview of technical, professional, and workplace writing. Emphasis on finding and evaluating information, creating well-crafted, user-oriented documents, and using suitable applications to make information available in appropriate formats. Ethics of technical writing and writing in a multicultural context.

Equivalent Quarter Course: ENGL 3025.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

ENGL 499 - Senior Seminar

Units: 4

English major portfolio development, preparation for exit examination, preparation for career options, and information on educational opportunities beyond the English undergraduate degree.

Prerequisites: English major and senior standing.

Equivalent Quarter Course: ENGL 4890.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

English: World Literature

ENGL 312 - Renaissance Humanism

Units: 4

Influence of classical learning; revival of humanistic studies; development of European Renaissance; major authors and representative works will be studied.

Prerequisites: Completion of GE areas A1, A2 and A3.

Equivalent Quarter Course: ENGL 3720 or ENGL 3725.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

English: Writing Workshop

ENGL 205 - Beginning Workshop in Fiction

Units: 4 ; G.E./G.R. Area: C1

Introduction to fiction writing with emphasis on the short story. May be repeated once for credit for a maximum of 8 units.

Equivalent Quarter Course: ENGL 2070.

Repeatability: May be repeated for credit for a maximum of 8 units.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

G.E./G.R. Area Satisfied: *C1 - Lower Division Arts*

ENGL 206 - Beginning Workshop in Poetry

Units: 4 ; G.E./G.R. Area: C1

Introduction to poetry writing of various types with emphasis on basic techniques. May be repeated once for credit for a maximum of 8 units.

Equivalent Quarter Course: ENGL 2075.

Repeatability: May be repeated for credit for a maximum of 8 units.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

G.E./G.R. Area Satisfied: *C1 - Lower Division Arts*

ENGL 305 - Intermediate Workshop in Fiction

Units: 4

An intermediate-level fiction writing workshop. Close analysis of student manuscripts and published stories.

Strongly Recommended Preparation: English 205.

Equivalent Quarter Course: ENGL 3070.

Repeatability: Course may be repeated twice for credit for a maximum of 12 units.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

ENGL 307 - Intermediate Workshop in Creative Nonfiction

Units: 4

Writing and workshop critique of long and short creative nonfiction.

Equivalent Quarter Course: ENGL 3071.

Repeatability: Course may be repeated twice for credit for a maximum of 12 units.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

ENGL 405 - Advanced Workshop in Fiction

Units: 4

An advanced-level fiction writing workshop. Close analysis of student manuscripts with some attention paid to suitability for publication.

Strongly Recommended Preparation: ENGL 305.

Equivalent Quarter Course: ENGL 4070.

Repeatability: May be repeated for credit for a maximum of 8 units.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

ENGL 406 - Advanced Workshop in Poetry

Units: 4

An advanced-level poetry writing workshop. Close analysis of student manuscripts with some attention paid to suitability for publication.

Strongly Recommended Preparation: ENGL 206.

Equivalent Quarter Course: ENGL 4075.

Repeatability: May be repeated for credit for a maximum of 8 units.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

Environmental Science

ENSC 210 - Physical and Environmental Geology

Units: 4 ; G.E./G.R. Area: B1, B3

Nature and distribution of earth materials, the processes by which the materials are formed and altered, and the nature and development of the landscape.

Equivalent Quarter Course: GEOL 2100 or GEOL 2101.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

G.E./G.R. Area Satisfied: *B1 - Lower Division Physical Science, B3 - Lower Division Laboratory Activity*

Cross-listed: GEOL 210.

ENSC 211 - Historical Geology

Units: 4

Principles of interpretation of Earth history. Study of plate tectonics and sea-floor spreading as related to the development of continents, ocean basins, and mountain belts. Origin, evolution and diversification of life through time. Laboratory work includes hands-on exercises with fossils.

Strongly Recommended Preparation: GEOL 210.

Equivalent Quarter Course: GEOL 2102.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

Cross-listed: GEOL 211.

ENSC 220 - Warming Planet, Rising Seas, and Global Change

Units: 3 ; G.E./G.R. Area: B1; Sustainability

Introduction to important environmental issues connected with global change, including climate change, greenhouse gases, extreme weather, sea level rise, ocean acidification, impacts on humans and other species. Critical analysis of media coverage of global change, climate science. Non-science majors welcome.

Equivalent Quarter Course: ENSC 2300.

Possible Instructional Methods: *Entirely On-ground, Entirely On-line, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F or CR/NC (student choice).

G.E./G.R. Area Satisfied: *B1 - Lower Division Physical Science, Overlay - Sustainability*

ENSC 235 - Disasters on Earth and in Hollywood

Units: 3 ; G.E./G.R. Area: B1; Sustainability

Investigates the portrayal of Earth Science and natural disasters in popular cinema. Focuses on fundamental geologic principles and processes, the scientific method, and the importance of differentiating science from pseudo-science in modern culture, and implications for a sustainable future.

Possible Instructional Methods: *Entirely On-ground, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F or CR/NC (student choice).

G.E./G.R. Area Satisfied: *B1 - Lower Division Physical Science, Overlay - Sustainability*

Cross-listed: GEOL 235

ENSC 240 - Environmental Biology

Units: 3 ; G.E./G.R. Area: B2; Sustainability

Introduction to living organisms focusing on organismal interactions with their environment and with other organisms, relationships between organismal structure and function, effects of humans on biological diversity and ecosystems, and conservation of species.

Equivalent Quarter Course: ENSC 2400.

Possible Instructional Methods: *Entirely On-ground, Entirely On-line, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F or CR/NC (student choice).

G.E./G.R. Area Satisfied: *B2 - Lower Division Life Sciences, Overlay - Sustainability*

ENSC 241 - Environmental Biology Laboratory

Units: 1 ; G.E./G.R. Area: B3

Introductory investigations of living organisms, focusing on biological processes, biodiversity, how the environment influences organisms, and how organisms in turn influence the environment. Methods of scientific inquiry, experimental design, data analysis, science as a creative process.

Co-requisites: ENSC 240.

Equivalent Quarter Course: ENSC 2401.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

G.E./G.R. Area Satisfied: *B3 - Lower Division Laboratory Activity*

ENSC 250 - Oil, Water and Future Earth

Units: 3 ; G.E./G.R. Area: B1; Sustainability

Focuses on the complex interactions of fossil fuels, water, climate and humans, which are all interconnected and interact in multiple ways. Various interconnections and dependencies are investigated regarding the evolution of these systems with emphasis on sustainability.

Possible Instructional Methods: *Entirely On-ground, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F or CR/NC (student choice).

G.E./G.R. Area Satisfied: *B1 - Lower Division Physical Science, Overlay - Sustainability*

ENSC 260 - Introduction to GIS in Earth and Environmental Sciences

Units: 3 ; G.E./G.R. Area: B1, B3

Interpretation of spatial data and preparation of maps using Geographic Information Systems. Display and manipulation of vector and raster data. Map scale, projections, and coordinate transformations. Basic database queries. Global Positioning Systems. The course will include examples from Earth sciences.

Lecture Units: 2; Lab Units: 1

Credit Restrictions: Must be taken graded A-F for credit toward the major.

Equivalent Quarter Course: GEOL 2600.

Possible Instructional Methods: *Entirely On-ground, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F or CR/NC (student choice).

G.E./G.R. Area Satisfied: *B1 - Lower Division Physical Science, B3 - Lower Division Laboratory Activity*

Cross-listed: GEOL 260.

ENSC 280 - Humans and the Environment in California

Units: 3 ; G.E./G.R. Area: B1; Sustainability

Human impacts on the biologic and geologic environment in California. Topics include climate change, resource needs and sustainability, waste issues, species diversity, and ecosystem degradation.

Equivalent Quarter Course: ENSC 2800 or ENSC 2801 or ENSC 2802.

Possible Instructional Methods: *Entirely On-ground, Entirely On-line, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F or CR/NC (student choice).

G.E./G.R. Area Satisfied: *B1 - Lower Division Physical Science, Overlay - Sustainability*

ENSC 297 - Introductory Field Experience

Units: 1

Applied field-based inquiry activities to introduce lower-division students to fundamental field skills that are common to field research in geology and the environmental sciences. Students spend extended periods in a natural, outdoor laboratory setting.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

Cross-listed: GEOL 297.

ENSC 311 - Geomorphology

Units: 3

Landforms as products of diastrophism, volcanism, and surficial processes; morphogenetic regions of the Earth and the effect of climate on the processes that shape them; rates and stages of landscape evolution and their dependence on time, process and structure.

Strongly Recommended Preparation: GEOL 211.

Prerequisites: GEOL 210.

Equivalent Quarter Course: GEOL 3110.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

Cross-listed: GEOL 311.

ENSC 320 - The Science of Global Change

Units: 3 ; G.E./G.R. Area: B6; Sustainability

The science of global environmental change over time; impacts on the physical environment and living organisms (including humans). Topics include orbital variations, greenhouse gases, ozone, extreme weather, ocean acidification, sea level rise, climate variability, climate modeling.

Prerequisites: Completion of GE areas A1, A2, A3 and B4.

Credit Restrictions: Not for Environmental Science major credit; majors should enroll in ENSC 420.

Possible Instructional Methods: *Entirely On-ground, Entirely On-line, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F grading only.

G.E./G.R. Area Satisfied: *B6 - Upper Division Science Inquiry and Quantitative Reasoning, Overlay - Sustainability*

ENSC 330 - Weather and the Atmosphere

Units: 3 ; G.E./G.R. Area: B6; Sustainability

Application of physical science principles in the study of the structure and circulation of the atmosphere; weather and weather forecasting. Emphasis on current issues and topics of local and global interest.

Prerequisites: Completion of GE areas A1, A2, A3 and B4.

Credit Restrictions: Not for Geology or Environmental Sciences major or minor credit.

Equivalent Quarter Course: GEOL 3040.

Possible Instructional Methods: *Entirely On-ground, Entirely On-line, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F or CR/NC (student choice).

G.E./G.R. Area Satisfied: *B6- Upper Division Science Inquiry and Quantitative Reasoning, Overlay - Sustainability*

Cross-listed: GEOL 330

ENSC 340 - The Oceans

Units: 3 ; G.E./G.R. Area: B6; Sustainability

An exploration of the interaction of oceans with the earth's geosphere, atmosphere, and biosphere. Topics include seafloor morphology, coastlines, seawater chemistry, the role the oceans play in controlling weather and climate, marine ecosystems, human impacts and dependence on the oceans.

Prerequisites: Completion of GE areas A1, A2, A3 and B4.

Credit Restrictions: Not for Environmental Sciences major credit; not for Geology major credit. Cannot earn credit for both GEOL 340 and GEOL 341.

Equivalent Quarter Course: GEOL 3401.

Possible Instructional Methods: *Entirely On-ground, Entirely On-line.*

Grading: A-F or CR/NC (student choice)

G.E./G.R. Area Satisfied: *B6 - Upper Division Science Inquiry and Quantitative Reasoning, Overlay -*

Sustainability

Cross-listed: GEOL 340

ENSC 343 - Atmospheric Science

Units: 3

Composition, structure, and thermodynamics of the atmosphere. Cloud and precipitation formation processes. Atmospheric-ocean feedbacks. Implications of human modification of the atmosphere.

Strongly Recommended Preparation: PHYS 125, PHYS 126, and CHEM 110 or CHEM 111.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

Cross-listed: GEOL 343.

ENSC 350 - Environmental Hydrology

Units: 4 ; G.E./G.R. Area: Sustainability

The hydrologic cycle and human impacts on the hydrologic cycle; quantitative assessment of hydrologic processes and concepts including precipitation, evapotranspiration, runoff, water budgets, and groundwater flow; surface water and groundwater contamination and remediation. *Lecture Units: 3; Lab Units: 1*

Prerequisites: CHEM 100, MATH 120 and PHYS 115.

Equivalent Quarter Course: ENSC 3500.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

G.E./G.R. Area Satisfied: *Overlay - Sustainability*

Cross-listed: GEOL 350.

ENSC 397 - Advanced Field Experience

Units: 2

Applied field based inquiry activities to develop advanced field skills, common to field research and professional activity in geology and the environmental sciences. Students spend extended periods in a natural, outdoor laboratory setting.

Prerequisites: GEOL/ENSC 297 and junior or senior standing.

Repeatability: May be repeated for credit for a maximum of 6 units when the content varies.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

Cross-listed: GEOL 397.

ENSC 410 - Geohealth

Units: 3

An exploration of the multitude of environmental exposures, both natural and human-derived, that affect human health. Use of mapping in determining spatial relationships between the environment and health. Case studies including radiation exposure, contaminated drinking water, and air pollution.

Prerequisites: ENSC 280.

Possible Instructional Methods: *Entirely On-ground, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F grading only.

Cross-listed: GEOL 410

ENSC 414 - Hazardous Waste Management

Units: 3 ; G.E./G.R. Area: Sustainability

Study of the investigation and cleanup of hazardous waste sites. Environmental regulations, hazard awareness, contaminant characterization, personal protective equipment, monitoring and sampling equipment, site characterization and control, decontamination, operational hazards and overview of emergency response.

Prerequisites: CHEM 112.

Equivalent Quarter Course: ENSC 4140.

Possible Instructional Methods: *Entirely On-ground, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F or CR/NC (student choice).

G.E./G.R. Area Satisfied: *Overlay - Sustainability*

Cross-listed: GEOL 414.

ENSC 420 - Global Change

Units: 3 ; G.E./G.R. Area: Sustainability

Interaction of climate and Earth's systems. Links between past and future climate, life, oceans, and the solid earth. Topics include orbital variations, greenhouse gases, ozone, extreme weather, ocean acidification, sea level rise, climate variability, climate modeling, mitigation, adaptation, and sustainability.

Prerequisites: CHEM 112, ENSC 280 and PHYS 126.

Equivalent Quarter Course: ENSC 4200.

Possible Instructional Methods: *Entirely On-ground, Entirely On-line, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F grading only.

G.E./G.R. Area Satisfied: *Overlay - Sustainability*

ENSC 460 - Geographic Information Systems for Earth and Environmental Sciences

Units: 4

An introduction to applications of Geographic Information Systems (GIS) to geology and other earth sciences. Application of GIS software for interpretation and analysis of spatial data. Use of digital terrain data and remotely-sensed imagery. Creation of maps and report generation.

Prerequisites: GEOL 210.

Equivalent Quarter Course: GEOL 4600.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

Cross-listed: GEOL 460.

ENSC 490 - Independent Study

Units: 1-4

Independent study under the supervision a department faculty member.

Prerequisites: Department consent and minimum 2.0 GPA.

Credit Restrictions: No more than 12 units of independent study may be applied in the major department and 8 units in other departments to a baccalaureate degree.

Equivalent Quarter Course: ENSC 4900.

Repeatability: May be repeated for credit, with department consent, for a total of 12 units.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

ENSC 497 - Special Topics and Issues in Environmental Sciences

Units: 3

Readings, discussion, and research on contemporary and/or significant issues in Environmental Sciences.

Equivalent Quarter Course: ENSC 3999.

Repeatability: May be repeated for credit for a maximum of 6 units when content varies.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

ENSC 499 - Capstone Seminar in Geosciences

Units: 3

Critical, in-depth study of selected topics of current and classical research in environmental geosciences; topics not repeated in two-year interval. Emphasizes development of information literacy and writing skills to effectively communicate in the language of the discipline.

Prerequisites: Junior or senior standing.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

Cross-listed: GEOL 499

Environmental Science: Graduate

ENSC 601 - Professional Ethics in Environmental Geosciences

Units: 1

Exploration of the ethics, roles, and responsibilities of professionals in the fields of geology and environmental science. Examination of ethics codes of professional organizations and best practices for promoting ethical behavior.

Prerequisites: Post-baccalaureate standing.

Possible Instructional Methods: *Entirely On-ground, Entirely On-line, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F grading only.

Cross-listed: GEOL 601.

ENSC 631 - Isotope Geochemistry

Units: 4

This course covers rules and assumptions for radiometric dating and examples of dating rocks and other natural materials, and rules governing fractionation of stable isotopes and applications of stable isotopes as tracers of geologic and biogeochemical processes.

Equivalent Quarter Course: GEOL 6310.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

Cross-listed: GEOL 631.

ENSC 632 - Groundwater Flow and Contaminant Transport

Units: 4

Groundwater resource evaluation methods. Mathematical development of multi-dimensional flow equations. Introduction to computer models and numerical simulation. Properties of inorganic and organic groundwater contaminants. Contaminant transport processes.

Prerequisites: M.S. Geology major.

Equivalent Quarter Course: GEOL 6320.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

Cross-listed: GEOL 632.

ENSC 633 - The Science of Soils

Units: 4

Aspects of soil science, including soil formation and structure, soil mineralogy, soil chemistry and fertility, soil physics, and soil ecology. Includes agricultural and urban environments, and issues such as

soil contamination.

Prerequisites: CHEM 112.

Possible Instructional Methods: *Entirely On-ground, Entirely On-line, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F grading only.

Cross-listed: GEOL 633

ENSC 634 - Biogeochemistry

Units: 4

The movement of elements (including nutrients and contaminants) through the biosphere, atmosphere, geosphere, and hydrosphere. Mechanisms of transformation, including redox transformations. Elemental cycles discussed can include carbon, nitrogen, phosphorus, sulfur, iron, arsenic, chromium, selenium, etc.

Prerequisites: CHEM 112.

Possible Instructional Methods: *Entirely On-ground, Entirely On-line, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F grading only.

Cross-listed: GEOL 634

ENSC 671 - Field Experience

Units: 1-2

Applied field based inquiry activities that provide students with opportunities to acquire and practice professional and technical field skills. Students spend extended periods in a natural, outdoor laboratory setting working closely with peers and instructor.

Repeatability: Course may be repeated for credit for a maximum of 6 units when content varies.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

Cross-listed: GEOL 671

ENSC 698 - Internship

Units: 1-3

Research or professional experience with a public or private organization involved in geologic or environmental studies, summarized in a written report.

Prerequisites: Post-baccalaureate standing.

Equivalent Quarter Course: GEOL 6420.

Repeatability: Course may be repeated for credit for a maximum of 3 units.

Possible Instructional Methods: *Entirely On-ground.*

Grading: CR/NC grading only.

Cross-listed: GEOL 698.

Environmental Studies

ENVT 101 - Environmental Challenges of the 21st Century

Units: 3 ; G.E./G.R. Area: D1-3; Sustainability

Are earth and humanity at the turning point of Environmental Armageddon or Sustainability and Social Justice? A study of Anthropogenic impacts, environmental limits, societal implications, and possible alternatives.

Equivalent Quarter Course: ENVT 2000.

Possible Instructional Methods: *Entirely On-ground, Entirely On-line.*

Grading: A-F or CR/NC (student choice).

G.E./G.R. Area Satisfied: *D1-3 - Lower Division Social Sciences, Overlay - Sustainability*

ENVT 225 - Fundamentals of GIS

Units: 3

Fundamentals of location-related information management, manipulation, and display. Usage of ArcGIS software in business; education; and physical, social and life sciences. Special topics on GIS layer formats, elementary spatial analysis techniques, and the manipulation of spatially explicit information.

Lecture Units: 2; Lab Units: 1

Equivalent Quarter Course: GEOG 3030.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

Cross-listed: GEOG 225

ENVT 307 - Social Impact through Sustainable Solar Design

Units: 3 ; G.E./G.R. Area: B6; Sustainability

Topics include: hands-on instruction of solar energy and design, energy poverty, and social justice impacts of solar energy. Construct stand-alone solar energy system designed for delivery of energy to the energy poor. Opportunities to teach solar science in local schools.

Prerequisites: Completion of GE areas A1, A2, A3 and B4.

Repeatability: May be repeated for credit for a maximum of 6 units.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

G.E./G.R. Area Satisfied: *B6- Upper Division Science Inquiry and Quantitative Reasoning, Overlay - Sustainability*

Cross-listed: PHYS 307.

ENVT 310 - Literature and Research Methods

Units: 4

Seminar in geographical and environmental literature, source materials, and research methods. Examination of seminal ideas associated with each discipline. Intensive exercises in both written and oral communication.

Prerequisites: Department consent and ENVT 101 or GEOG 125.

Equivalent Quarter Course: GEOG 3450.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

Cross-listed: GEOG 310

ENVT 320 - Environmental Resource Analysis

Units: 4

Quantitative methods in environmental and resource studies. *Lecture Units: 2; Lab Units: 2*

Prerequisites: CHEM 100 and STAT 100.

Equivalent Quarter Course: ENVT 3400.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

Cross-listed: GEOG 320

ENVT 330 - Environment, Sustainability, and Social Justice

Units: 3 ; G.E./G.R. Area: D4; Sustainability

Environmental sustainability and social justice interactions, US and international. Social and ethical implications of environmental and resource limits. Sustainable development as a vehicle for social justice.

Prerequisites: Completion of GE areas A1, A2, A3 and B4; and junior, senior, or post-baccalaureate standing.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

G.E./G.R. Area Satisfied: *D4 - Upper Division Social Sciences, Overlay - Sustainability*

ENVT 340 - Climate Change

Units: 3 ; G.E./G.R. Area: B6; Sustainability

Pre-modern and modern variations in climate with emphasis on geological, geomorphological, and biological records. Causes (natural and anthropogenic) and consequences (natural and cultural) of climate change. Factors determining vulnerability to climate change impacts and strategies for adaptation and mitigation.

Strongly Recommended Preparation: GEOG 200.

Prerequisites: Completion of GE areas A1, A2, A3 and B4.

Equivalent Quarter Course: GEOG 3120.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

G.E./G.R. Area Satisfied: *B6 - Upper Division Science Inquiry and Quantitative Reasoning, Overlay - Sustainability*

Cross-listed: GEOG 340.

ENVT 380 - Applied Field Studies

Units: 3

Application of field techniques and methods in environmental studies, including field observation, sampling, data collection, and computer-based analysis. Presentation of results in graphic and written forms.

Prerequisites: ENVT 320.

Equivalent Quarter Course: ENVT 3480 or GEOG 3480.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

Cross-listed: GEOG 380

ENVT 398 - Internship

Units: 1-3

Supervised work experience in which the student completes academic assignments integrated with off-campus paid or volunteer activities closely related to the discipline of environmental studies.

Prerequisites: Department consent.

Equivalent Quarter Course: ENVT 3898.

Repeatability: May be repeated for credit for a maximum of 6 units.

Possible Instructional Methods: *Entirely On-ground.*

Grading: CR/NC grading only.

ENVT 410 - Environmental Impact Analysis

Units: 3

Examination of the origins, applications, and changing dynamics of the environmental review process. Policy implications of environmental impact assessment, land-use planning, and public decision-making in the U.S., with an emphasis on California.

Strongly Recommended Preparation: ENVT 330.

Prerequisites: ENVT 380.

Equivalent Quarter Course: ENVT 4100.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

ENVT 445 - Water and Watershed Resources

Units: 4 ; G.E./G.R. Area: B6

The science, policy and practice of urban water and watershed resources management. Watershed and stream system identification, hydrology, assessment, and restoration. Municipal water systems and their management, water and wastewater treatment, water quality monitoring, stormwater, water conservation, and supply reliability.

Strongly Recommended Preparation: GEOG 200 or ENVT 101.

Prerequisites: Completion of GE areas A1, A2, A3 and B4.

Equivalent Quarter Course: GEOG 4350.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

G.E./G.R. Area Satisfied: *B6 - Upper Division Science Inquiry and Quantitative Reasoning*

Cross-listed: GEOG 445

ENVT 447 - Energy, Climate and Society

Units: 4 ; G.E./G.R. Area: B6; Sustainability

The science and technology of societal energy choices as they affect global environmental sustainability, national security, equity, and social justice.

Prerequisites: Completion of GE areas A1, A2, A3 and B4.

Equivalent Quarter Course: ENVT 4320.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

G.E./G.R. Area Satisfied: *B6 - Upper Division Science Inquiry and Quantitative Reasoning, Overlay - Sustainability*

Cross-listed: GEOG 447

ENVT 465 - Sustainable Communities and Development

Units: 4 ; G.E./G.R. Area: D4; Sustainability

An assessment of the personal, corporate, local, national and global dimensions of sustainability, the challenges facing humanity, and the identification of future options and alternatives at each scale, with special emphasis on urban sustainability issues, goals, progress, and process.

Strongly Recommended Preparation: ENVT 101/GEOG 200.

Prerequisites: Completion of GE areas A1, A2, A3 and B4.

Equivalent Quarter Course: GEOG 4330.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

G.E./G.R. Area Satisfied: *D4 - Upper Division Social Sciences, Overlay - Sustainability*

Cross-listed: GEOG 465

ENVT 490 - Independent Study

Units: 1-3

Faculty-guided independent research on an environmental topic.

Prerequisites: Department consent and minimum 2.0 GPA.

Equivalent Quarter Course: ENVT 4900.

Repeatability: May be repeated for credit for a maximum of 6 units.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

ENVT 493 - Environmental Projects

Units: 3

Original project-based research on an environmental issue, working under faculty guidance as an individual and in groups.

Prerequisites: ENVT 310, ENVT 320 and ENVT 445.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

ENVT 495 - Environmental Internship

Units: 1-3

Campus-based internships working on environmental projects.

Strongly Recommended Preparation: ENVT 101.

Prerequisites: Department consent.

Equivalent Quarter Course: ENVT 4910.

Repeatability: May be repeated for credit for a maximum of 6 units.

Possible Instructional Methods: *Entirely On-ground.*

Grading: CR/NC grading only.

Ethnic Studies

ES 100 - Introduction to Social Justice in Communities of Color

Units: 3 ; G.E./G.R. Area: D1-3; Social Justice

A survey of social justice movements in communities of color beginning with the 1968 Third World Liberation Strikes at SFSU and UC Berkeley. Course considers the formation of Ethnic Studies and ongoing relationship between social justice and Ethnic Studies scholarship.

Equivalent Quarter Course: ES 1001.

Possible Instructional Methods: *Entirely On-ground, Entirely On-line, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F or CR/NC (student choice).

G.E./G.R. Area Satisfied: *D1-3 - Lower Division Social Sciences, Overlay - Social Justice*

ES 120 - The People's History I

Units: 3 ; G.E./G.R. Area: US-1, US-2, US-3; Social Justice

Topical and comparative approach to the contributions of diverse peoples and cultures to the development of the United States from European contact to 1877.

Equivalent Quarter Course: ES 1201.

Possible Instructional Methods: *Entirely On-ground, Entirely On-line, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F or CR/NC (student choice).

G.E./G.R. Area Satisfied: *American Institutions/Code US-1 and US-2 and US-3, Overlay - Social Justice*

ES 121 - The People's History II

Units: 3 ; G.E./G.R. Area: US-1, US-2, US-3; Social Justice

Topical and comparative approach to the contributions of diverse peoples and cultures to the development of the United States from 1877 to the present.

Equivalent Quarter Course: ES 1202.

Possible Instructional Methods: *Entirely On-ground, Entirely On-line, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F or CR/NC (student choice).

G.E./G.R. Area Satisfied: *American Institutions/Code US-1 and US-2 and US-3, Overlay - Social Justice*

ES 200 - Race and Resistance

Units: 3 ; G.E./G.R. Area: C1; Diversity

Overview of the history of people of color through activism and resistance in art, politics, and music. Emphasis is on major artists, organizations, movements, and events that sought social change from the 20th century to the present.

Possible Instructional Methods: *Entirely On-ground, Entirely On-line, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F or CR/NC (student choice).

G.E./G.R. Area Satisfied: *C1 - Lower Division Arts, Overlay - Diversity*

ES 244 - Mixed Race Identities in the US

Units: 3 ; G.E./G.R. Area: D1-3; Diversity

Examination of mixed race peoples-their legal and social status, U.S. Census designations, and identities--from the one-drop rule to President Obama and beyond.

Equivalent Quarter Course: ES 3434.

Possible Instructional Methods: *Entirely On-ground, Entirely On-line, Hybrid (every section of this course may be*

taught both online and on-ground).

Grading: A-F or CR/NC (student choice).

G.E./G.R. Area Satisfied: D1-3 - Lower Division Social Sciences, Overlay - Diversity

ES 247 - Hip Hop Nation

Units: 3 ; G.E./G.R. Area: C1; Social Justice

Hip Hop Nation explores the diasporic origins and the national, and international evolution of hip hop as a transformative cultural and political force.

Equivalent Quarter Course: ES 2175.

Possible Instructional Methods: *Entirely On-ground, Entirely On-line, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F or CR/NC (student choice).

G.E./G.R. Area Satisfied: C1 - Lower Division Arts, Overlay - Social Justice

ES 300 - Writing for Social Justice

Units: 3 ; G.E./G.R. Area: UWSR; Social Justice

The theory and practice of persuasive writing with a focus on producing prose that advances a social justice mission.

Prerequisites: Junior standing or above; and either CR (credit) in ENGL 300 or ENGL 301 and a score of 7 on the first-tier portfolio; or score of 7 or better on the Writing Skills test; or satisfaction of the graduation writing assessment requirement (GWAR) at any CSU campus including the UWSR at Cal State East Bay. Credit unavailable through challenge.

Equivalent Quarter Course: ES 3000.

Possible Instructional Methods: *Entirely On-ground, Entirely On-line, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F or CR/NC (student choice).

G.E./G.R. Area Satisfied: *University Writing Skills Requirement, Overlay - Social Justice*

ES 302 - Eating The Landscape

Units: 3 ; G.E./G.R. Area: C4; Sustainability

Survey of traditional small-scale agroecological systems of North American indigenous farmers. Exploration of these dedicated stewards of foods who continue to enhance the sustainability, diversity, and beauty of the places that they live in.

Strongly Recommended Preparation: For ES Majors: ES 100 and ES 200.

Prerequisites: Completion of GE areas A1, A2, A3 and B4.

Possible Instructional Methods: *Entirely On-ground, Entirely On-line, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F or CR/NC (student choice).

G.E./G.R. Area Satisfied: C4 - Upper Division Arts or Humanities, Overlay - Sustainability

ES 308 - Cultures of Habitat

Units: 3 ; G.E./G.R. Area: B6; Sustainability

A focus on ethnoecology and the study of the interrelationships between local ecosystems and people. Students will learn ethnoecological knowledge of some East Bay communities of color and the role they play in culturally sustainable adaptations to the Bay Area.

Strongly Recommended Preparation: Ethnic Studies Majors should successfully complete ES 100 and ES 200

Prerequisites: Completion of GE areas A1, A2, A3 and B4.

Possible Instructional Methods: *Entirely On-ground, Entirely On-line, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F or CR/NC (student choice).

G.E./G.R. Area Satisfied: *B6 - Upper Division Science Inquiry and Quantitative Reasoning, Overlay - Sustainability*

ES 322 - Oral Traditions

Units: 3 ; G.E./G.R. Area: C4; Diversity

An examination of oral traditions in a cross cultural context, with special emphasis on collective memory, folklore, and testimonial literature of indigenous and mestizo/a populations. Students will examine oral history, interviewing techniques, immigration, popular culture, and genealogy.

Prerequisites: Completion of GE areas A1, A2, A3 and B4.

Equivalent Quarter Course: ES 3230.

Possible Instructional Methods: *Entirely On-ground, Entirely On-line, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F or CR/NC (student choice).

G.E./G.R. Area Satisfied: *C4 - Upper Division Arts or Humanities, Overlay - Diversity*

ES 326 - Peoples of Central America

Units: 3 ; G.E./G.R. Area: D4; Social Justice

The developmental relationship between United States communities of Central America origin and contemporary Central America. Focus on historical, socioeconomic, and cultural factors, as well as revolutionary movements, economic dependence, migration patterns (to the United States) and social change.

Prerequisites: Completion of GE areas A1, A2, A3 and B4.

Equivalent Quarter Course: ES 3800.

Possible Instructional Methods: *Entirely On-ground, Entirely On-line, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F or CR/NC (student choice).

G.E./G.R. Area Satisfied: *D4 - Upper Division Social Sciences, Overlay - Social Justice*

ES 389 - Engaging Communities of Color

Units: 3

Supervised internships designed to enable students to apply ethnic studies analytical perspectives that center on race, class, gender and sexual identities. Students will be directed toward organizations reflecting their personal interests in social justice, the environment, health, art, youth, etc. *Lecture Units: 1; Supervision Units: 2*

Prerequisites: ES 100, ES 200, ES 300, ES 301 and ES 302.

Equivalent Quarter Course: ES 3889.

Possible Instructional Methods: *Entirely On-ground, Entirely On-line, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F or CR/NC (student choice).

ES 398 - Internship

Units: 1-3

Introduction to the internship experience; integration of the academic program with career aspirations; emphasis on internship readiness and preparation for professional success.

Prerequisites: Department consent and minimum 2.0 GPA.

Credit Restrictions: No more than 3 units may be applied to the Ethnic Studies major or minor.

Equivalent Quarter Course: ES 3898

Repeatability: May be repeated with department consent for a maximum of 6 units.

Possible Instructional Methods: *Entirely On-ground.*

Grading: CR/NC grading only.

ES 490 - Independent Study

Units: 1-4

Independent study under the supervision a department faculty member.

Prerequisites: Department consent and minimum 2.0 GPA.

Credit Restrictions: Students may apply no more than 12 units of independent study in the major department and 8 units in other departments to a baccalaureate degree.

Equivalent Quarter Course: ES 4900.

Repeatability: May be repeated for credit, with department consent, for a total of 12 units.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

ES 497 - Issues in Ethnic Studies

Units: 3

Readings, discussion, and research on contemporary and/or significant issues in ethnic studies.

Equivalent Quarter Course: ES 3999.

Repeatability: May be repeated for credit when content varies, for a maximum of 6 units.

Possible Instructional Methods: *Entirely On-ground, Entirely On-line, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F or CR/NC (student choice).

Ethnic Studies: African American Studies

ES 245 - Black Flix

Units: 3 ; G.E./G.R. Area: C1; Diversity

Black Flix offers a history of African American produced representations of Black life through cinema and focuses on the social/cultural/political importance of Black cinema and its critique of dominant culture.

Prerequisites: Completion of GE areas A1, A2 and A3.

Equivalent Quarter Course: ES 2300.

Possible Instructional Methods: *Entirely On-ground, Entirely On-line, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F or CR/NC (student choice).

G.E./G.R. Area Satisfied: *C1 - Lower Division Arts, Overlay - Diversity*

ES 301 - Black Feminisms

Units: 3 ; G.E./G.R. Area: D4; Diversity

Examination of key issues, assumptions, and debates in contemporary, post civil rights Black feminist thought. Highlights pioneering contributions to anti-racist and feminist thought.

Prerequisites: Completion of GE areas A1, A2, A3 and B4.

Equivalent Quarter Course: ES 3303.

Possible Instructional Methods: *Entirely On-ground, Entirely On-line, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F or CR/NC (student choice).

G.E./G.R. Area Satisfied: *D4 - Upper Division Social Sciences, Overlay - Diversity*

ES 340 - Black Literature

Units: 3 ; G.E./G.R. Area: C4; Diversity

An eclectic exploration of the Black literary tradition as a source of theorizing about the Black condition utilizing graphic novels, genre writing, classic literature, poetry, and playwriting.

Prerequisites: Completion of GE areas A1, A2, A3 and B4.

Equivalent Quarter Course: ES 3691.

Possible Instructional Methods: *Entirely On-ground, Entirely On-line, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F or CR/NC (student choice).

G.E./G.R. Area Satisfied: *C4 - Upper Division Arts or Humanities, Overlay - Diversity*

ES 341 - Enslavement and Resistance in the Americas

Units: 3 ; G.E./G.R. Area: D4; Diversity

Investigation of the history and resistance of African American enslavement throughout the Diaspora and implications for the modern world.

Prerequisites: Completion of GE areas A1, A2, A3 and B4.

Equivalent Quarter Course: ES 3130.

Possible Instructional Methods: *Entirely On-ground, Entirely On-line, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F or CR/NC (student choice).

G.E./G.R. Area Satisfied: *D4 - Upper Division Social Sciences, Overlay - Diversity*

ES 342 - James Baldwin

Units: 3 ; G.E./G.R. Area: C4; Social Justice

This course assesses James Baldwin's vanguard role in American discourses of race and gender and appreciates the impact of his radical synthesis of race and gay consciousness on American politics and the construction of an aesthetic of radical Black masculinity.

Prerequisites: Completion of GE areas A1, A2, A3 and B4.

Equivalent Quarter Course: ES 3720.

Possible Instructional Methods: *Entirely On-ground, Entirely On-line, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F or CR/NC (student choice).

G.E./G.R. Area Satisfied: *C4 - Upper Division Arts or Humanities, Overlay - Social Justice*

ES 343 - Black Power

Units: 3 ; G.E./G.R. Area: D4; Social Justice

Black Power examines the histories of the Black Panther Party for Self-Defense with special emphasis on the regional East Bay manifestations of the movement.

Prerequisites: Completion of GE areas A1, A2, A3 and B4.

Equivalent Quarter Course: ES 3120.

Possible Instructional Methods: *Entirely On-ground, Entirely On-line, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F or CR/NC (student choice).

G.E./G.R. Area Satisfied: *D4 - Upper Division Social Sciences, Overlay - Social Justice*

ES 344 - Malcolm X: Third World Revolutionary

Units: 3 ; G.E./G.R. Area: D4; Social Justice

An intensive seminar course that examines the life and political/cultural influence of the iconic third world revolutionary known variously as Malcolm Little, Detroit Red, Malcolm X, and El-Hajj Malik El-Shabazz.

Prerequisites: Completion of GE areas A1, A2, A3 and B4.

Equivalent Quarter Course: ES 3190.

Possible Instructional Methods: *Entirely On-ground, Entirely On-line, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F or CR/NC (student choice).

G.E./G.R. Area Satisfied: *D4 - Upper Division Social Sciences, Overlay - Social Justice*

ES 345 - Jazz Cultures and Communities

Units: 3 ; G.E./G.R. Area: C4; Diversity

The social, cultural, political and economic histories of African American communities from New Orleans to Los Angeles formed around the practice and performance of jazz music.

Prerequisites: Completion of GE areas A1, A2, A3 and B4.

Equivalent Quarter Course: ES 3146.

Possible Instructional Methods: *Entirely On-ground, Entirely On-line, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F or CR/NC (student choice).

G.E./G.R. Area Satisfied: *C4 - Upper Division Arts or Humanities, Overlay - Diversity*

ES 346 - Afrofuturism

Units: 3 ; G.E./G.R. Area: C4; Diversity

Afrofuturism explores cultural aesthetic that combines elements of science fiction, historical fiction, fantasy, Afrocentricity, and magical realism with non-Western cosmologies in order to critique present-day dilemmas of people of color, imagine Black futurity and re-examine historical events.

Prerequisites: Completion of GE areas A1, A2, A3 and B4.

Possible Instructional Methods: *Entirely On-ground, Entirely On-line, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F or CR/NC (student choice).

G.E./G.R. Area Satisfied: *C4 - Upper Division Arts or Humanities, Overlay - Diversity*

ES 347 - Black Sexualities

Units: 3 ; G.E./G.R. Area: D4; Diversity

An introduction to a broad range of sexual diversities within Black communities including LGBTQ identities to BDSM and polyamory. The course deals with the impact of slavery, pornography, sex work, and hip hop culture on affirmative Black sexual awareness.

Prerequisites: Completion of GE areas A1, A2, A3 and B4.

Equivalent Quarter Course: ES 3165.

Possible Instructional Methods: *Entirely On-ground, Entirely On-line, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F or CR/NC (student choice).

G.E./G.R. Area Satisfied: D4 - Upper Division Social Sciences, Overlay - Diversity

Ethnic Studies: American Indian Studies

ES 303 - Debates in Contemporary Native America

Units: 3 ; G.E./G.R. Area: C4; Diversity

Exploration of contemporary debates and issues specific to American Indian communities including theories of American Indian origins, stereotypes, racism, resistance, and sovereignty.

Strongly Recommended Preparation: ES 100 and/or ES 200.

Prerequisites: Completion of GE areas A1, A2, A3 and B4.

Equivalent Quarter Course: ES 2400.

Possible Instructional Methods: *Entirely On-ground, Entirely On-line, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F or CR/NC (student choice).

G.E./G.R. Area Satisfied: C4 - Upper Division Arts or Humanities, Overlay - Diversity

ES 304 - American Indian Oral Literature

Units: 3 ; G.E./G.R. Area: C4; Diversity

Examination of American Indian oral tradition in historical and contemporary contexts. Compare and contrast oral and written literatures, indigenous and western knowledge systems, the different form and function of orality and literacy, and subjective and objective ways of knowing.

Strongly Recommended Preparation: ES 100 and/or ES 200.

Prerequisites: Completion of GE areas A1, A2, A3 and B4.

Equivalent Quarter Course: ES 2320.

Possible Instructional Methods: *Entirely On-ground, Entirely On-line, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F or CR/NC (student choice).

G.E./G.R. Area Satisfied: C4 - Upper Division Arts or Humanities, Overlay - Diversity

ES 305 - Reel Injun: American Indians in Film

Units: 3 ; G.E./G.R. Area: D4; Social Justice

Critical study of portrayals of American Indians in the mass media (film, television, advertising, journalism, arts) and the consequences of simplification, disinformation, and the promotion of stereotypes.

Prerequisites: Completion of GE areas A1, A2, A3 and B4.

Possible Instructional Methods: *Entirely On-ground, Entirely On-line, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F or CR/NC (student choice).

G.E./G.R. Area Satisfied: D4 - Upper Division Social Sciences, Overlay - Social Justice

ES 306 - American Indian Liberation

Units: 3 ; G.E./G.R. Area: D4; Social Justice

Study of organized American Indian liberation and revitalization movements, resistance to colonialism and continued exploitation.

Strongly Recommended Preparation: ES 100 and/or ES 200.

Prerequisites: Completion of GE areas A1, A2, A3 and B4.

Equivalent Quarter Course: ES 3330.

Possible Instructional Methods: Entirely On-ground, Entirely On-line, Hybrid (every section of this course may be taught both online and on-ground).

Grading: A-F or CR/NC (student choice).

G.E./G.R. Area Satisfied: D4 - Upper Division Social Sciences, Overlay - Social Justice

ES 307 - God is Red: American Indian Worldview

Units: 3 ; G.E./G.R. Area: C4; Sustainability

Investigation of American Indian worldview and spirituality, the philosophical tenets behind these different forms of knowledge production and their influences on American Indian societies. The study of how cultures construct and classify their universe and reality based on cultural criteria.

Strongly Recommended Preparation: ES 100 and/or ES 200.

Prerequisites: Completion of GE areas A1, A2, A3 and B4.

Equivalent Quarter Course: ES 3310.

Possible Instructional Methods: Entirely On-ground, Entirely On-line, Hybrid (every section of this course may be taught both online and on-ground).

Grading: A-F or CR/NC (student choice).

G.E./G.R. Area Satisfied: C4 - Upper Division Arts or Humanities, Overlay - Sustainability

Ethnic Studies: Asian American Studies

ES 360 - Asian American Intimacies and Families

Units: 3 ; G.E./G.R. Area: D4; Diversity

This course problematizes the patriarchal heterosexual nuclear Asian American family based on marital and biological ties. It examines how and why cultural practices and public policies continue to prioritize biological familial bonds despite the emergence of intentional family formations.

Strongly Recommended Preparation: For ES Majors: ES 100 and ES 200.

Prerequisites: Completion of GE areas A1, A2, A3 and B4.

Equivalent Quarter Course: ES 3555.

Possible Instructional Methods: Entirely On-ground, Entirely On-line, Hybrid (every section of this course may be

taught both online and on-ground).

Grading: A-F or CR/NC (student choice).

G.E./G.R. Area Satisfied: D4 - Upper Division Social Sciences, Overlay - Diversity

ES 361 - Asian Immigrant and Refugee Women in Literature and Cinema

Units: 3 ; G.E./G.R. Area: C4; Social Justice

This course explores the lives and images of Asian immigrant and refugee women. We will investigate their real-world conditions as they are inflected in literature, visual media, television and advertising.

Strongly Recommended Preparation: ES 100 and ES 200.

Prerequisites: Completion of GE areas A1, A2, A3 and B4.

Equivalent Quarter Course: ES 3030.

Possible Instructional Methods: *Entirely On-ground, Entirely On-line, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F or CR/NC (student choice).

G.E./G.R. Area Satisfied: C4 - Upper Division Arts or Humanities, Overlay - Social Justice

ES 362 - Concentration Camps, USA

Units: 3 ; G.E./G.R. Area: D4; Social Justice

The personal, social, legal, and economic impact of U.S. government evacuation and internment of U.S. citizens of Japanese ancestry during World War II. Comparison with contemporary and historical detainments of U.S. residents during times of national crisis.

Prerequisites: Completion of GE areas A1, A2, A3 and B4.

Equivalent Quarter Course: ES 3556.

Possible Instructional Methods: *Entirely On-ground, Entirely On-line, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F or CR/NC (student choice).

G.E./G.R. Area Satisfied: D4 - Upper Division Social Sciences, Overlay - Social Justice

ES 363 - Asian American & Pacific Islander Film Festival

Units: 3 ; G.E./G.R. Area: C4; Diversity

In-class scholarly research on Asian American and Pacific Islander films from local annual film festivals. Hands-on film festival experience with the Center for Asian American Media and/or the San Francisco International Film Festival.

Strongly Recommended Preparation: For ES Majors: ES 100 and ES 200.

Prerequisites: Completion of GE areas A1, A2, A3 and B4.

Equivalent Quarter Course: ES 3557.

Possible Instructional Methods: *Entirely On-ground, Entirely On-line, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F or CR/NC (student choice).

G.E./G.R. Area Satisfied: C4 - Upper Division Arts or Humanities, Overlay - Diversity

ES 364 - Asian American & Pacific Islander Communities

Units: 3 ; G.E./G.R. Area: D4; Diversity

This course examines contemporary Asian American and Pacific Islander communities in California. It will combine community analysis and knowledge derived from service learning in AAPI social justice organizations.

Strongly Recommended Preparation: ES Majors: ES 100 and ES 200.

Prerequisites: Completion of GE areas A1, A2, A3 and B4.

Possible Instructional Methods: *Entirely On-ground, Entirely On-line, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F or CR/NC (student choice).

G.E./G.R. Area Satisfied: *D4 - Upper Division Social Sciences, Overlay - Diversity*

ES 365 - Asian American and Pacific Islander Environmental Voices

Units: 3 ; G.E./G.R. Area: C4; Social Justice

An analysis of key literary texts in the emerging field of Asian American & Pacific Islander Environmentalism and their relationship to important issues such as sustainability, neoliberal globalization, labor, environmental justice, environmental disaster, post-colonial ecology/tourism, indigenous culture, and ecofeminism.

Strongly Recommended Preparation: For ES Majors: ES 100 and ES 200.

Prerequisites: Completion of GE areas A1, A2, A3 and B4.

Possible Instructional Methods: *Entirely On-ground, Entirely On-line, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F or CR/NC (student choice).

G.E./G.R. Area Satisfied: *C4 - Upper Division Arts or Humanities, Overlay - Social Justice*

Ethnic Studies: Genders and Sexualities in Communities of Color

ES 380 - Queer of Color Histories, Cultures, and Identities

Units: 3 ; G.E./G.R. Area: C4; Social Justice

Study of queer of color communities in the US, historically and in the present. Course examines the ways that queer of color communities have resisted the confines of "the normal" by creating resistant cultures, liberatory spaces, and political solidarities.

Prerequisites: Completion of GE areas A1, A2, A3 and B4.

Equivalent Quarter Course: ES 4300.

Possible Instructional Methods: *Entirely On-ground, Entirely On-line, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F or CR/NC (student choice).

G.E./G.R. Area Satisfied: *C4 - Upper Division Arts or Humanities, Overlay - Social Justice*

ES 381 - Racialized Masculinities

Units: 3 ; G.E./G.R. Area: D4; Diversity

This course explores the intersection of race, class, gender, sexuality and the construction of masculinity for gay, straight, bisexual, transgender, queer men of color in contemporary American society.

Prerequisites: Completion of GE areas A1, A2, A3 and B4.

Equivalent Quarter Course: ES 3710.

Possible Instructional Methods: *Entirely On-ground, Entirely On-line, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F or CR/NC (student choice).

G.E./G.R. Area Satisfied: *D4 - Upper Division Social Sciences, Overlay - Diversity*

ES 382 - Women of Color Writers: Race, Sex, and Resistance

Units: 3 ; G.E./G.R. Area: C4; Diversity

Structured as a "reading salon," this course involves student-centered discussions of writings by US women of color. May include discussion of novels, short stories, poetry and/or essays that address racial uplift, sexuality, radical self-love, resistance, and revolution.

Prerequisites: Completion of GE areas A1, A2, A3 and B4.

Equivalent Quarter Course: ES 3730.

Possible Instructional Methods: *Entirely On-ground, Entirely On-line, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F or CR/NC (student choice).

G.E./G.R. Area Satisfied: *C4 - Upper Division Arts or Humanities, Overlay - Diversity*

ES 384 - Interracial Sex and Marriage

Units: 3 ; G.E./G.R. Area: C4; Social Justice

Interracial sexuality is a critical nexus where race and sexuality intersect with social anxiety and desire. Considering both Hollywood and independent film, this course examines filmic representations of changing social attitudes toward interracial sex and marriage in the US.

Prerequisites: Completion of GE areas A1, A2, A3 and B4.

Equivalent Quarter Course: ES 3430.

Possible Instructional Methods: *Entirely On-ground, Entirely On-line, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F or CR/NC (student choice).

G.E./G.R. Area Satisfied: *C4 - Upper Division Arts or Humanities, Overlay - Social Justice*

Ethnic Studies: Latino/a Studies

ES 320 - The Chicano/a Movement

Units: 3 ; G.E./G.R. Area: D4

This course covers the historical and social aspects of the Chicano/a Movement. It examines the artistic, political, and literary contributions of the Chicano Movement and its impact on US society.

Prerequisites: Completion of GE areas A1, A2, A3 and B4.

Equivalent Quarter Course: ES 3255.

Possible Instructional Methods: *Entirely On-ground, Entirely On-line, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F or CR/NC (student choice).

G.E./G.R. Area Satisfied: *D4 - Upper Division Social Sciences, Social Justice*

ES 321 - Latinas in the US

Units: 3 ; G.E./G.R. Area: C4; Diversity

A study of Latina feminism through an examination of key writings, film, drama, art, and activism.

Prerequisites: Completion of GE areas A1, A2, A3 and B4.

Equivalent Quarter Course: ES 3210.

Possible Instructional Methods: *Entirely On-ground, Entirely On-line, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F or CR/NC (student choice).

G.E./G.R. Area Satisfied: *C4 - Upper Division Arts or Humanities, Overlay - Diversity*

ES 323 - Latinx and Latin American Film

Units: 3 ; G.E./G.R. Area: C4; Social Justice

An exploration of Latinx and Latin American film with a focus on transnational identities and cultures, im/migration, political resistance, and gender relations.

Prerequisites: Completion of GE areas A1, A2, A3 and B4.

Equivalent Quarter Course: ES 3243.

Possible Instructional Methods: *Entirely On-ground, Entirely On-line, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F or CR/NC (student choice).

G.E./G.R. Area Satisfied: *C4 - Upper Division Arts or Humanities, Overlay - Social Justice*

ES 324 - Latin American Immigration

Units: 3 ; G.E./G.R. Area: C4; Diversity

This course examines Latin American immigration to the United States from a comparative and trans-border perspective. Focus is on refugees, children, economic displacement, and undocumented immigrants. Students will learn current and past policies and their affects on immigrant lives.

Prerequisites: Completion of GE areas A1, A2, A3 and B4.

Equivalent Quarter Course: ES 3805.

Possible Instructional Methods: *Entirely On-ground, Entirely On-line, Hybrid (every section of this course may be*

taught both online and on-ground).

Grading: A-F or CR/NC (student choice).

G.E./G.R. Area Satisfied: C4 - Upper Division Arts or Humanities, Overlay - Diversity

ES 325 - Cultural Production in Mexico and Mesoamerica

Units: 3 ; G.E./G.R. Area: C4; Social Justice

Exploration of culture, artistic production, and identity from pre-Colombian times to the present. Major topics of discussion are Mesoamerican religion and culture, conquest and colonialism, Spanish influences, cuisine, music, gender and sexuality, revolution, and contemporary Mexican and Mesoamerican world views.

Prerequisites: Completion of GE areas A1, A2, A3 and B4.

Possible Instructional Methods: *Entirely On-ground, Entirely On-line, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F or CR/NC (student choice).

G.E./G.R. Area Satisfied: C4 - Upper Division Arts or Humanities, Overlay - Social Justice

ES 327 - Decolonize Your Diet

Units: 3 ; G.E./G.R. Area: D4; Sustainability

An examination of the indigenous roots of Mesoamerican cuisine and an exploration of social, political, and spiritual aspects of food and diet in Mexican and Central American communities in the US.

Prerequisites: Completion of GE areas A1, A2, A3 and B4.

Equivalent Quarter Course: ES 3010.

Possible Instructional Methods: *Entirely On-ground, Entirely On-line, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F or CR/NC (student choice).

G.E./G.R. Area Satisfied: D4 - Upper Division Social Sciences, Overlay - Sustainability

Finance

FIN 230 - Personal Finance

Units: 3 ; G.E./G.R. Area: E

Principles and practices of money management, consumer credit, savings, investments, taxation, and consumer protection.

Equivalent Quarter Course: FIN 2300.

Possible Instructional Methods: *Entirely On-ground, Entirely On-line.*

Grading: A-F grading only.

G.E./G.R. Area Satisfied: E - Lifelong Learning and Self-Development

FIN 380 - Real Estate Principles

Units: 3

Fundamental tools of real estate decision-making and survey of real estate finance, investment, valuation, development, spatial economics, law, brokerage, and operations.

Equivalent Quarter Course: FIN 3400.

Possible Instructional Methods: *Entirely On-ground, Entirely On-line.*

Grading: A-F grading only.

FIN 382 - Real Estate Practice

Units: 3

Responsibilities of real estate sales and brokerage practices, the selling and buying processes of real property from listing to closing escrow, the purpose and importance of title. Ethical responsibilities of owning and operating a real estate business.

Equivalent Quarter Course: FIN 3410.

Possible Instructional Methods: *Entirely On-ground, Entirely On-line.*

Grading: A-F grading only.

FIN 384 - Real Estate Law

Units: 3

Legal facets of real property acquisition, ownership and disposition. Importance of titles, deeds, easement creation, zoning laws, leases and contracts, community property, types of tenancies. Introduction to mortgage and construction laws, brokerage laws and land-use regulation.

Equivalent Quarter Course: FIN 3420.

Possible Instructional Methods: *Entirely On-ground, Entirely On-line.*

Grading: A-F grading only.

FIN 398 - Internship

Units: 1-3

Introduction to the internship experience; integration of the academic program with career aspirations; emphasis on internship readiness and preparation for professional success.

Prerequisites: Department consent and minimum 2.0 GPA.

Credit Restrictions: No units may be applied to any CBE major or minor.

Equivalent Quarter Course: FIN 3898.

Repeatability: May be repeated with department consent for a maximum of 6 units.

Possible Instructional Methods: *Entirely On-ground.*

Grading: CR/NC grading only.

FIN 405 - Corporate Finance

Units: 3

In-depth study of theories and practices of corporate financial management. Emphasis on corporate financial decision-making, including capital budgeting, capital structure, dividend policy, risk management, and international financial management.

Prerequisites: BUS 330.

Equivalent Quarter Course: FIN 4300.

Possible Instructional Methods: *Entirely On-ground, Entirely On-line.*

Grading: A-F grading only.

FIN 410 - Problems in Corporate Finance

Units: 3

Studies of specific problems in corporate financial policy formulation and decision-making using financial data bases and models.

Prerequisites: BUS 330.

Equivalent Quarter Course: FIN 4320.

Possible Instructional Methods: *Entirely On-ground, Entirely On-line.*

Grading: A-F grading only.

FIN 420 - Investment Analysis

Units: 3

Introduction to the theory and practice of investment analysis. Topics include asset classes and financial instruments, markets and trading, investment companies, modern portfolio theory, fundamental and technical analysis of securities, and portfolio management.

Prerequisites: BUS 330.

Equivalent Quarter Course: FIN 4310.

Possible Instructional Methods: *Entirely On-ground, Entirely On-line.*

Grading: A-F grading only.

FIN 430 - Derivatives Markets

Units: 3

Financial derivative markets. Topics include futures and forward markets, valuation, and strategies; option markets, valuation, and strategies; risk management and hedging; swaps and financial engineering.

Prerequisites: BUS 330.

Equivalent Quarter Course: FIN 4315.

Possible Instructional Methods: *Entirely On-ground, Entirely On-line.*

Grading: A-F grading only.

FIN 435 - Risk Management in Financial Institutions

Units: 3

This course examines the US financial system. Topics include Federal Reserve mandates of monetary policy; money and mortgage markets; risk management and techniques in financial institutions; and issues leading up to financial crises.

Prerequisites: BUS 330.

Equivalent Quarter Course: FIN 4328.

Possible Instructional Methods: *Entirely On-ground, Entirely On-line.*

Grading: A-F grading only.

FIN 445 - Financial Modeling

Units: 3

Using spreadsheets to solve a range of financial problems in investments, small business and corporate finance. Hands-on application of financial concepts in order to develop skills useful in a variety of jobs in finance, accounting, insurance, real estate and management.

Prerequisites: BUS 330.

Equivalent Quarter Course: FIN 4330.

Possible Instructional Methods: *Entirely On-ground, Entirely On-line.*

Grading: A-F grading only.

FIN 460 - International Business Finance

Units: 3

Markets and monetary systems in different countries where multinational firms operate. Topics include analyses of exchange rate risk, import/export dynamics, international parity conditions, exchange rate regimes and hedging.

Prerequisites: BUS 330.

Equivalent Quarter Course: FIN 4375.

Possible Instructional Methods: *Entirely On-ground, Entirely On-line.*

Grading: A-F grading only.

FIN 470 - Entrepreneurial Finance

Units: 3

Features of entrepreneurial finance. Emphasis on examining the financing options available for ventures, the structure of different financing options and the characteristics of the venture capital industry.

Prerequisites: BUS 330.

Equivalent Quarter Course: FIN 4305.

Possible Instructional Methods: *Entirely On-ground, Entirely On-line.*

Grading: A-F grading only.

FIN 475 - Advanced Investment Analysis and Ethics

Units: 3

Advanced analysis of equities, fixed income, and alternative investments including the portfolio management process and investment related ethics and professional standards.

Prerequisites: FIN 420.

Possible Instructional Methods: *Entirely On-ground, Entirely On-line.*

Grading: A-F grading only.

FIN 480 - Real Estate Finance

Units: 3

Study of equity, mortgage, lease, sale and lease-back, and innovative methods of financing residential and commercial real estate, including related tax effects. Analysis of mortgage-backed securities, including related pricing techniques.

Equivalent Quarter Course: FIN 4410.

Possible Instructional Methods: *Entirely On-ground, Entirely On-line.*

Grading: A-F grading only.

FIN 482 - Real Estate Valuation

Units: 3

Applications of appraisal theory and investment analysis to the field of Real Estate.

Equivalent Quarter Course: FIN 4415.

Possible Instructional Methods: *Entirely On-ground, Entirely On-line.*

Grading: A-F grading only.

FIN 484 - Sustainable Real Estate Development

Units: 3

Analysis of sustainability applying to real estate development including resources and costs of rehabilitation and construction of green building technology. Topics include building sustainable infrastructure, financial impacts, developer's costs, and returns on "green" projects.

Equivalent Quarter Course: FIN 4420.

Possible Instructional Methods: *Entirely On-ground, Entirely On-line.*

Grading: A-F grading only.

FIN 486 - Real Estate Markets and Housing Policies

Units: 3

Study of real estate markets, regulations, housing policies, and related topics.

Equivalent Quarter Course: FIN 4470.

Possible Instructional Methods: *Entirely On-ground, Entirely On-line.*

Grading: A-F grading only.

FIN 488 - Seminar in Advanced Topics in Real Estate

Units: 3

Advanced topics in real estate, including contemporary environmental, sociological, financial, economic, and political issues.

Repeatability: May be repeated for a maximum of 6 units when content varies.

Possible Instructional Methods: *Entirely On-ground, Entirely On-line.*

Grading: A-F grading only.

FIN 490 - Independent Study

Units: 1-4

Independent study under the supervision a department faculty member.

Prerequisites: Department consent and minimum 2.0 GPA.

Credit Restrictions: No more than 12 units of independent study may be applied in the major department and 8 units in other departments to a baccalaureate degree.

Equivalent Quarter Course: FIN 4900.

Repeatability: May be repeated for credit, with department consent, for a total of 12 units.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

FIN 497 - Seminar in Financial Theory

Units: 3

Selected topics dealing with recent developments in financial theory and management practice.

Prerequisites: BUS 330.

Equivalent Quarter Course: FIN 4370.

Repeatability: May be repeated for a maximum of 6 units when content varies.

Possible Instructional Methods: *Entirely On-ground, Entirely On-line.*

Grading: A-F grading only.

Finance: Graduate

BUS 605 - Corporate Financial Management

Units: 3

Theory and practice of corporate financial management. Topics include corporate governance, corporate

performance analysis, capital investment decisions, firm valuation, cost of capital, short-term financing, long-term financing, capital structures, and dividend policies.

Prerequisites: BUS 604.

Equivalent Quarter Course: FIN 6215.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

FIN 620 - Seminar in Security Analysis and Portfolio Management

Units: 3

Theory and practice of security analysis and portfolio management. Topics include asset classes and financial instruments, markets and trading, investment companies, modern portfolio theory, fundamental and technical analysis of securities, bond analysis and management, and performance measurement.

Prerequisites: BUS 605.

Equivalent Quarter Course: FIN 6310.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

FIN 630 - Seminar in Options and Futures

Units: 3

Financial derivative markets. Topics include futures and forward markets, valuation, and strategies; option markets, valuation, and strategies; risk management and hedging; swaps and financial engineering.

Prerequisites: BUS 605.

Equivalent Quarter Course: FIN 6315.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

FIN 640 - Financial Markets and Institutions

Units: 3

The U.S. financial system. Topics include Federal Reserve mandates of monetary policy and inflation; money and mortgage markets; risk management and techniques in financial institutions; and issues leading up to financial crises.

Prerequisites: BUS 605.

Equivalent Quarter Course: FIN 6320.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

FIN 650 - Financial Management of Banking Institutions

Units: 3

Commercial bank management in today's financial services industry. Modern approach to understanding and managing the risks faced by banks. Methods of optimizing shareholder value, risk-return tradeoffs, regulatory and strategic issues.

Prerequisites: BUS 605.

Equivalent Quarter Course: FIN 6325.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

FIN 660 - International Financial Management

Units: 3

Financial and currency markets and monetary systems in which multinational firms operate. Topics include analyses of the balance of payments, international parity conditions, foreign exchange markets and exchange rate behavior.

Prerequisites: BUS 605.

Equivalent Quarter Course: FIN 6375.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

FIN 670 - New Venture Financing

Units: 3

Unique features of entrepreneurial finance. Emphasis will be on examining the characteristics, structure, and valuation of ventures. Various aspects of the venture capital industry are addressed.

Prerequisites: BUS 605.

Equivalent Quarter Course: FIN 6305.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

FIN 690 - Independent Study

Units: 1-4

Independent study under the supervision of a member of the graduate faculty.

Prerequisites: Department consent and minimum 3.0 GPA.

Equivalent Quarter Course: FIN 6900.

Repeatability: May be repeated for credit, with department consent, for a total of 12 units.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

FIN 697 - Issues in Finance

Units: 3

Readings, discussion, and research on contemporary and/or significant issues in finance.

Equivalent Quarter Course: FIN 6999.

Repeatability: May be repeated for credit when content varies, for a maximum of 6 units.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

FIN 698 - Internship

Units: 1-3

Formal advanced work opportunities integrating the academic program with their career aspirations.

Integral advanced hands-on experience enhancing education and preparing for professional and personal success.

Prerequisites: Department consent and minimum 3.0 GPA.

Credit Restrictions: No units may be applied to any CBE graduate degree.

Equivalent Quarter Course: FIN 6898.

Repeatability: May be repeated with department consent for a maximum of 6 units.

Possible Instructional Methods: *Entirely On-ground.*

Grading: CR/NC grading only.

General Studies

GS 101A - Foundations of Success I

Units: 1 ; G.E./G.R. Area: E

Develops skills for success in college and beyond. Activities focus on self agency, growth mindset, working styles, and sense of community; exploration of academic resources. Required for freshmen during Fall semester as part of the Freshman Year Experience program.

Co-requisites: Enrollment in linked courses as part of the Freshman Year Experience program.

Equivalent Quarter Course: GS 1011.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

G.E./G.R. Area Satisfied: *E - Lifelong Learning and Self-Development*

GS 101B - Foundations of Success II

Units: 1 ; G.E./G.R. Area: E

Builds on skills from GS 101A with teamwork, effective communication, and preparing for sophomore success. Activities emphasize diversity, social justice, and sustainability through community engagement. Required for freshmen during Spring semester as part of the Freshman Year Experience program.

Co-requisites: Linked courses within Freshman Year Experience program.

Equivalent Quarter Course: GS 1012.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

G.E./G.R. Area Satisfied: *E - Lifelong Learning and Self-Development*

GS 201 - Leadership

Units: 1 ; G.E./G.R. Area: E

Theory and practice of Peer Mentoring. Focus on understanding the mentoring role in and outside of the classroom. Develop leadership through practical application by practicing the competencies to work with instructors and students.

Prerequisites: Department consent.

Equivalent Quarter Course: GS 2500.

Repeatability: May be repeated for credit for a maximum of 4 units.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

G.E./G.R. Area Satisfied: *E - Lifelong Learning and Self-Development*

GS 202 - Peer Mentor Practicum

Units: 1 ; G.E./G.R. Area: E

Development of Peer Mentor Leadership through practical application. Strategies for communicating effectively with diverse students; developing small and large group facilitation skills; ethical and reflective leadership; and personal and professional self-development including the study of emotional intelligence.

Prerequisites: GS 201 and department consent.

Credit Restrictions: This course will be reserved for students officially admitted into the peer mentor program.

Equivalent Quarter Course: GS 2500.

Repeatability: May be repeated for credit for a maximum of 2 units.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

G.E./G.R. Area Satisfied: *E - Lifelong Learning and Self-Development*

GS 305 - Advanced Peer Mentor Practicum

Units: 1 ; G.E./G.R. Area: E

Development of Peer Mentor Leadership through practical application. Study of student development and topics of equity and social justice; strategies for guiding group activities/discussions across a broad range of topics and tasks; developing resources for Peer Mentor Services including activities and discussions for GS 201; ethical and reflective leadership; and assessment and design of an individualized professional growth plan.

Prerequisites: Department consent.

Repeatability: May be repeated for credit for a maximum of 6 units.

Possible Instructional Methods: *Entirely On-line, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F grading only.

G.E./G.R. Area Satisfied: *E - Lifelong Learning and Self-Development*

GS 309 - Honors Service and Leadership

Units: 3

Introduction to the practice and theory of civic leadership, with emphasis upon community engagement. Service learning hours required. Please note: effective spring 2019 this course prefix will change from GS to HON. *Discussion Units: 1; Activity Units: 2*

Prerequisites: Department consent.

Equivalent Quarter Course: GS 3099.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

GS 321 - General Studies for Students in Special Transfer Programs I

Units: 1 ; G.E./G.R. Area: E

Introduction to University services. Academic skill development for transfer students. Strategies for success in upper-division course work and developing career and life goals. Multicultural focus for students enrolled in an academic success program, such as GANAS or Sankofa.

Prerequisites: Department consent.

Equivalent Quarter Course: GS 3011.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

G.E./G.R. Area Satisfied: *E - Lifelong Learning and Self-Development*

GS 322 - Strategies for Success in College and Career II

Units: 1 ; G.E./G.R. Area: E

Second part of course designed for transfer students. Continues to bolster academic success and career exploration with an increased emphasis on strategies for professional success, including exploration of internship and fellowship opportunities. Offered in Spring semester. *Note: please see Errata chapter of this catalog for course modification.*

Prerequisites: Junior or senior standing and department consent.

Equivalent Quarter Course: GS 3012.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice)

G.E./G.R. Area Satisfied: *E - Lifelong Learning and Self-Development*

GS 331 - Community Engagement and Leadership Seminar for GANAS I

Units: 1 ; G.E./G.R. Area: E; Social Justice

Further academic skill development and improvement to support success in upper division GE and major courses. Focus on connecting learning to students' communities through service learning and to understanding the importance of educational equity in the 21st Century. (*see Errate - Course page for update)

Prerequisites: Completion of GE areas A1, A2 and A3.

Repeatability: May be repeated for credit for a maximum of 3 units.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

G.E./G.R. Area Satisfied: *E - Lifelong Learning and Self-Development, Overlay - Social Justice*

GS 332 - Community Engagement and Leadership Seminar for GANAS II

Units: 2 ; G.E./G.R. Area: E; Social Justice

Further academic skill development and improvement to support success in upper division GE and major courses. Focus on connecting learning to students' communities through service learning and to understanding the importance of educational equity in the 21st Century. (*see Errate - Course page for update)

Prerequisites: Completion of GE areas A1, A2 and A3.

Repeatability: May be repeated for credit for a maximum of 6 units.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

G.E./G.R. Area Satisfied: *E - Lifelong Learning and Self-Development, Overlay - Social Justice*

GS 398 - Internship

Units: 1

Introduction to the internship experience; integration of the academic program with career aspirations; emphasis on internship readiness and preparation for professional success.

Prerequisites: At least 2.0 GPA and department consent.

Repeatability: May be repeated for credit for a maximum of 4 units.

Possible Instructional Methods: *Entirely On-ground, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: ABC/NC grading only.

GS 399 - Honors Seminar

Units: 1

Students in the University Honors Program produce and present a digital portfolio of their academic and service accomplishments, assessing their Honors work in the context of program learning outcomes and professional goals. *Please note: effective spring 2019 this course prefix will change from GS to HON.*

Prerequisites: Admission to Honors Program, Junior standing or higher, and department consent.

Equivalent Quarter Course: GS 3999.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

GS 401 - Approaches to Tutoring for Learning

Units: 1-3 ; G.E./G.R. Area: E

Introduces the dynamic processes of tutoring and learning. Surveys the literature on tutoring theory and combines tutoring observation and experience in the university learning center to provide informed training for tutors and teachers.

Equivalent Quarter Course: GS 4010.

Repeatability: May be repeated for credit for a maximum of 9 units.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

G.E./G.R. Area Satisfied: *E - Lifelong Learning and Self-Development*

GS 498 - Internship

Units: 1

Formal work opportunities integrating the academic program with their career aspirations. Integral hands-on experience enhancing education and preparing for professional and personal success. *Lecture Units: .5; Supervision Units: .5*

Prerequisites: At least 2.0 GPA and department consent.

Repeatability: May be repeated for credit for a maximum of 4 units.

Possible Instructional Methods: *Entirely On-ground, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: ABC/NC grading only.

GS 698 - Internship

Units: 1

Formal advanced work opportunities integrating the academic program with their career aspirations. Integral advanced hands-on experience enhancing education and preparing for professional and personal success. *Lecture Units: .5; Supervision Units: .5*

Prerequisites: At least 2.0 GPA and department consent.

Repeatability: May be repeated for credit for a maximum of 4 units.

Possible Instructional Methods: *Entirely On-ground, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: ABC/NC grading only.

Geography

GEOG 110 - Physical Geography: Earth Processes and Outcomes

Units: 3 ; G.E./G.R. Area: B1

Major processes and components of the physical environment, including landforms, climate, hydrology, vegetation, and soils. *Lecture Units: 2; Activity Units: 1*

Equivalent Quarter Course: GEOG 2100.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

G.E./G.R. Area Satisfied: *B1 - Lower Division Physical Science*

GEOG 120 - Human Geography: Diversity and Globalization

Units: 3 ; G.E./G.R. Area: D1-3

Exploring cultural diversity in this increasingly globalized world. Contemporary topics of human population, food and agricultural systems, social organization, spatial interaction, and globalization.

Equivalent Quarter Course: GEOG 2300.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

G.E./G.R. Area Satisfied: *D1-3 - Lower Division Social Sciences*

GEOG 125 - World Regions and Development

Units: 3 ; G.E./G.R. Area: D1-3

Geographic analysis of the physical, cultural, environmental, economic and demographic patterns of world regions and selected nations. Patterns of global wealth, poverty and inequality from a geographical perspective and trends in important economic, environmental and sociocultural dimensions of world development.

Equivalent Quarter Course: GEOG 2400.

Possible Instructional Methods: *Entirely On-ground, Entirely On-line.*

Grading: A-F or CR/NC (student choice).

G.E./G.R. Area Satisfied: *D1-3 - Lower Division Social Sciences*

GEOG 200 - Sustainable Resource Management

Units: 3 ; G.E./G.R. Area: D1-3

The Earth as a source of land, water, biotic, mineral and energy resources. The role of human populations in their use, development and exploitation. Drivers, trends, patterns and consequences of renewable and non-renewable resource use.

Equivalent Quarter Course: GEOG 3000.

Possible Instructional Methods: *Entirely On-ground, Entirely On-line.*

Grading: A-F or CR/NC (student choice).

G.E./G.R. Area Satisfied: *D1-3 - Lower Division Social Sciences*

GEOG 225 - Fundamentals of GIS

Units: 3

Fundamentals of location-related information management, manipulation, and display. Usage of ArcGIS software in business; education; and physical, social and life sciences. Special topics on GIS layer formats, elementary spatial analysis techniques, and the manipulation of spatially explicit information.

Equivalent Quarter Course: GEOG 3030.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

Cross-listed: ENVT 225

GEOG 310 - Literature and Research Methods

Units: 4

Seminar in geographical and environmental literature, source materials, and research methods. Examination of seminal ideas associated with each discipline. Intensive exercises in both written and oral communication.

Prerequisites: Department consent and ENVT 101 or GEOG 125.

Equivalent Quarter Course: GEOG 3450.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

Cross-listed: ENVT 310

GEOG 320 - Environmental Resource Analysis

Units: 4

Quantitative methods in environmental and resource studies.

Prerequisites: CHEM 100 and STAT 100.

Equivalent Quarter Course: ENVT 3400.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

Cross-listed: ENVT 320

GEOG 330 - Historical Geography of North America

Units: 3 ; G.E./G.R. Area: D4

Historical-geographic processes of exploration, settlement, urbanization, cultural integration, land use, and resource exploitation from the 16th century to the present. Geographic and economic forces driven by

migrants from Europe, Africa, Asia and Latin America is emphasized.

Prerequisites: Completion of GE areas A1, A2, A3 and B4.

Equivalent Quarter Course: GEOG 3360.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

G.E./G.R. Area Satisfied: *D4 - Upper Division Social Sciences*

GEOG 336 - Asian Americans: Multiculturalism and Spatial Disparity

Units: 3 ; G.E./G.R. Area: D4

Ethnic diversity and settlement patterns of Asian communities in California and the United States; immigration history and demographic changes of major Asian ethnic groups; socio-economic profiles, cultural identities, and contemporary issues of Asian Americans.

Prerequisites: Completion of GE areas A1, A2, A3 and B4.

Equivalent Quarter Course: GEOG 3200.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

G.E./G.R. Area Satisfied: *D4 - Upper Division Social Sciences*

GEOG 340 - Climate Change

Units: 3 ; G.E./G.R. Area: B6; Sustainability

Pre-modern and modern variations in climate with emphasis on geological, geomorphological, and biological records. Causes (natural and anthropogenic) and consequences (natural and cultural) of climate change. Factors determining vulnerability to climate change impacts and strategies for adaptation and mitigation.

Strongly Recommended Preparation: GEOG 200

Prerequisites: Completion of GE areas A1, A2, A3 and B4.

Equivalent Quarter Course: GEOG 3120.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

G.E./G.R. Area Satisfied: *B6 - Upper Division Science Inquiry and Quantitative Reasoning, Overlay - Sustainability*

Cross-listed: ENVT 340

GEOG 350 - California

Units: 3 ; G.E./G.R. Area: D4

A study of California's uniqueness and diversity from the aspects of physical landscape, environmental resources, human and cultural diversity, historical transformation, and economic activities.

Prerequisites: Completion of GE areas A1, A2, A3 and B4.

Equivalent Quarter Course: GEOG 3505.
Possible Instructional Methods: *Entirely On-ground.*
Grading: A-F or CR/NC (student choice).
G.E./G.R. Area Satisfied: D4 - Upper Division Social Sciences

GEOG 351 - United States and Canada

Units: 3 ; G.E./G.R. Area: D4

A regional survey of the physical, cultural, demographic, economic, and political patterns in the United States and Canada. Special focus on the spatial history of human settlements, economic activity, land use and environmental resources.

Prerequisites: Completion of GE areas A1, A2, A3 and B4.
Equivalent Quarter Course: GEOG 3500.
Possible Instructional Methods: *Entirely On-ground.*
Grading: A-F or CR/NC (student choice).
G.E./G.R. Area Satisfied: D4 - Upper Division Social Sciences

GEOG 352 - Latin America and the Caribbean

Units: 3 ; G.E./G.R. Area: D4

The geography of Latin America and the Caribbean and its present-day patterns and processes. A systematic review of physical characteristics, social and political systems and problems, economic issues, cultural variations, and regional integrations and interactions in a globalized society.

Strongly Recommended Preparation: GEOG 125.
Prerequisites: Completion of GE areas A1, A2, A3 and B4.
Equivalent Quarter Course: GEOG 3510 and GEOG 3515.
Possible Instructional Methods: *Entirely On-ground.*
Grading: A-F or CR/NC (student choice).
G.E./G.R. Area Satisfied: D4 - Upper Division Social Sciences

GEOG 353 - Africa

Units: 3 ; G.E./G.R. Area: D4

An overview of the diverse regions, environments and peoples of contemporary Africa and the changing patterns of resource utilization and human development.

Strongly Recommended Preparation: GEOG 125.
Prerequisites: Completion of GE areas A1, A2, A3 and B4.
Possible Instructional Methods: *Entirely On-ground.*
Grading: A-F or CR/NC (student choice).
G.E./G.R. Area Satisfied: D4 - Upper Division Social Sciences

GEOG 354 - China: Economic Development and Social Transformation

Units: 3 ; G.E./G.R. Area: D4

China as a concept and a rising world power; geographic survey of China's changing physical and cultural landscapes; recent decades of economic reforms and social transformation; special focus on energy and environmental issues, demographic shifts, and globalization.

Prerequisites: Completion of GE areas A1, A2, A3 and B4.

Equivalent Quarter Course: GEOG 3540.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

G.E./G.R. Area Satisfied: *D4 - Upper Division Social Sciences*

GEOG 355 - Asia Pacific

Units: 3 ; G.E./G.R. Area: D4

Physical resources, human land use, economic systems, and political patterns in the Asia Pacific region; historical footprints and modern transformation; economic cooperation and geo-political realignment; demographic transition and environmental challenges.

Prerequisites: Completion of GE areas A1, A2, A3 and B4.

Equivalent Quarter Course: GEOG 3550.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

G.E./G.R. Area Satisfied: *D4 - Upper Division Social Sciences*

GEOG 356 - Europe

Units: 3 ; G.E./G.R. Area: D4

The regional geography of Europe, with emphasis on present-day patterns and processes. A systematic review of physical characteristics, social and political systems and problems, economic issues, and regional integrations and interactions.

Strongly Recommended Preparation: GEOG 125.

Prerequisites: Completion of GE areas A1, A2, A3 and B4.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

G.E./G.R. Area Satisfied: *D4 - Upper Division Social Sciences*

GEOG 360 - Computer Cartography

Units: 3

Fundamentals of map design and communication theory; hands-on experience in computer mapping. Effective graphic representation of spatial data; concepts in spatial data structure and database management; and lab-oriented software applications.

Equivalent Quarter Course: GEOG 3605.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

GEOG 380 - Applied Field Studies

Units: 3

Application of field techniques and methods in environmental studies, including field observation, sampling, data collection, and computer-based analysis. Presentation of results in graphic and written forms.

Prerequisites: ENVT 320.

Equivalent Quarter Course: GEOG 3480 or ENVT 3480

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

Cross-listed: ENVT 380.

GEOG 397 - Issues in Anthropology, Geography and Environmental Studies

Units: 3

Readings, discussion, and research on contemporary and/or significant issues in anthropology, geography and environmental studies.

Equivalent Quarter Course: GEOG 3999.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

GEOG 398 - Internship

Units: 1-3

Supervised work experience in which the student completes academic assignments integrated with off-campus paid or volunteer activities closely related to the discipline of geography.

Prerequisites: Department consent.

Equivalent Quarter Course: GEOG 3898.

Repeatability: May be repeated for credit for a maximum of 6 units.

Possible Instructional Methods: *Entirely On-ground.*

Grading: CR/NC grading only.

GEOG 425 - Advanced GIS

Units: 3

Advanced tools, data management, and functions in geographic information systems (GIS) on the mapping, monitoring, analysis, management and conservation of environmental resources; topics in spatial data analysis, 3D-visualization, and modeling of geographic information science (GISci). *Lecture*

Units: 2; Lab Units: 1

Prerequisites: GEOG 225.

Equivalent Quarter Course: GEOG 4605.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

GEOG 445 - Water and Watershed Resources

Units: 4 ; G.E./G.R. Area: B6

The science, policy and practice of urban water and watershed resources management. Watershed and stream system identification, hydrology, assessment, and restoration. Municipal water systems and their management, water and wastewater treatment, water quality monitoring, stormwater, water conservation, and supply reliability.

Strongly Recommended Preparation: GEOG 200 or ENVT 101.

Prerequisites: Completion of GE areas A1, A2, A3 and B4.

Equivalent Quarter Course: GEOG 4350 or ENVT 4350.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

G.E./G.R. Area Satisfied: *B6 - Upper Division Science Inquiry and Quantitative Reasoning*

Cross-listed: ENVT 445

GEOG 447 - Energy, Climate and Society

Units: 4 ; G.E./G.R. Area: B6; Sustainability

The science and technology of societal energy choices as they affect global environmental sustainability, national security, equity, and social justice.

Prerequisites: Completion of GE areas A1, A2, A3 and B4.

Equivalent Quarter Course: GEOG 4320.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

G.E./G.R. Area Satisfied: *B6 - Upper Division Science Inquiry and Quantitative Reasoning, Overlay - Sustainability*

Cross-listed: ENVT 447

GEOG 450 - Earth Surface Processes and Landforms

Units: 3 ; G.E./G.R. Area: B6

Earth surface processes and the erosion, deposition and formation of landforms by gravity, wind, water, ice and waves. The physical geography of river, valley, glacier, mountain, slope, coast, desert and estuary environments.

Prerequisites: Completion of GE areas A1, A2, A3 and B4 ; and GEOG 110.

Equivalent Quarter Course: GEOG 3115.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

G.E./G.R. Area Satisfied: *B6- Upper Division Science Inquiry and Quantitative Reasoning*

GEOG 455 - Sustainable Food Systems

Units: 4 ; G.E./G.R. Area: D4; Sustainability

Basis for sustainable food systems from local to global scales, including social, economic and environmental dimensions of food production and consumption. Examination of the sustainability of daily food choices and tools for determining impacts of local, processed and imported foods.

Strongly Recommended Preparation: GEOG 200.

Prerequisites: Completion of GE areas A1, A2, A3 and B4.

Equivalent Quarter Course: GEOG 3320.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

G.E./G.R. Area Satisfied: *D4 - Upper Division Social Sciences, Overlay - Sustainability*

GEOG 461 - Remote Sensing of the Environment

Units: 3

Remote sensing applications for Earth resource management. Focus on space-borne Earth observation systems sensing at the near-infrared, thermal-infrared, and microwave spectrums; basic principles and strategies of digital image enhancement, classification, and interpretation.

Strongly Recommended Preparation: GEOG 462.

Equivalent Quarter Course: GEOG 4425.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

GEOG 462 - Air Photo Interpretation

Units: 3

Principles of airborne remote sensing and image interpretation for environmental resource management. Hands-on experience in photogrammetric stereoscopy, target recognition, and image measurement of spatial data. *Lecture Units: 2; Lab Units: 1*

Equivalent Quarter Course: GEOG 3410.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

GEOG 465 - Sustainable Communities and Development

Units: 4 ; G.E./G.R. Area: D4; Sustainability

An assessment of the personal, corporate, local, national and global dimensions of sustainability, the

challenges facing humanity, and the identification of future options and alternatives at each scale, with special emphasis on urban sustainability issues, goals, progress, and process.

Strongly Recommended Preparation: GEOG 200/ENVT 101.

Prerequisites: Completion of GE areas A1, A2, A3 and B4.

Equivalent Quarter Course: GEOG 4330.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

G.E./G.R. Area Satisfied: *D4 - Upper Division Social Sciences, Overlay - Sustainability*

Cross-listed: ENVT 465.

GEOG 490 - Independent Study

Units: 1-3

Independent study for Geography

Prerequisites: Department consent and minimum 2.0 GPA.

Equivalent Quarter Course: GEOG 4900.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

GEOG 497 - Issues in Geography

Units: 3

Readings, discussion, and research on contemporary and/or significant issues in geography.

Equivalent Quarter Course: GEOG 3999.

Repeatability: May be repeated for credit when content varies, for a maximum of 6 units.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

GEOG 499 - Senior Seminar in Geography

Units: 3

Advanced research, analysis and evaluation of major geographic issues. Synthesis and application of knowledge and understanding of the student's major area of interest in the form of a capstone paper on a relevant contemporary issue.

Strongly Recommended Preparation: GEOG 310.

Prerequisites: Senior standing, and declared Geography or Environmental Studies major.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

Geology

GEOL 100 - Earth Systems Science

Units: 4 ; G.E./G.R. Area: B1, B3; Sustainability

Introduction to the nature and evolution of the solid Earth, its composition and structure, geologic systems and deep time, hazards and resources, the hydrosphere, atmosphere and our solar system, evolution and human interaction with the planet now and future. *Lecture Units: 3; Lab Units: 1*

Credit Restrictions: Not for Geology or Environmental Sciences major or minor credit; not open to students with credit for GEOL 101.

Equivalent Quarter Course: Either GEOL 1000; or GEOL 1001 and GEOL 1002.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

G.E./G.R. Area Satisfied: *B1 - Lower Division Physical Science, B3 - Lower Division Laboratory Activity, Overlay - Sustainability*

GEOL 101 - Introduction to the Earth Sciences

Units: 3 ; G.E./G.R. Area: B1; Sustainability

Introduction to the nature and evolution of the solid Earth, its composition and structure, geologic systems and deep time, hazards and resources, the hydrosphere, atmosphere and our solar system, evolution and human interaction with the planet now and the future.

Strongly Recommended Preparation: Optional concurrent enrollment in GEOL 102.

Credit Restrictions: Not for Geology or Environmental Sciences major or minor credit; not open to students with credit for GEOL 100.

Equivalent Quarter Course: GEOL 1001.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

G.E./G.R. Area Satisfied: *B1 - Lower Division Physical Science, Overlay - Sustainability*

GEOL 102 - Earth Sciences Laboratory

Units: 1 ; G.E./G.R. Area: B3

Laboratory investigation of the Earth system: solid Earth, hydrosphere, atmosphere, and solar system. Geologic materials, maps, earthquakes, landslides, weather, oceans and currents, planets. Required field trip.

Co-requisites: GEOL 101.

Credit Restrictions: Not for Geology or Environmental Sciences major or minor credit

Equivalent Quarter Course: GEOL 1002.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

G.E./G.R. Area Satisfied: *B3 - Lower Division Laboratory Activity*

GEOL 120 - Introduction to Oceanography

Units: 3 ; G.E./G.R. Area: B1; Sustainability

Origin of ocean basins, nature of the sea floor, physical/chemical characteristics of sea water, formation of water waves, ocean currents, marine life, relationships between humans and the sea.

Credit Restrictions: Not for Environmental Sciences major credit; not for Geology major or minor credit

Equivalent Quarter Course: GEOL 1201.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

G.E./G.R. Area Satisfied: *B1 - Lower Division Physical Science, Overlay - Sustainability*

GEOL 210 - Physical and Environmental Geology

Units: 4 ; G.E./G.R. Area: B1, B3

Nature and distribution of earth materials, the processes by which the materials are formed and altered, and the nature and development of the landscape. *Lecture Units: 3; Lab Units: 1*

Equivalent Quarter Course: GEOL 2100 or GEOL 2101.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

G.E./G.R. Area Satisfied: *B1 - Lower Division Physical Science, B3 - Lower Division Laboratory Activity*

Cross-listed: ENSC 210

GEOL 211 - Historical Geology

Units: 4

Principles of interpretation of Earth history. Study of plate tectonics and sea-floor spreading as related to the development of continents, ocean basins, and mountain belts. Origin, evolution and diversification of life through time. Laboratory work includes hands-on exercises with fossils. *Lecture Units: 3; Lab Units: 1*

Strongly Recommended Preparation: GEOL 210

Equivalent Quarter Course: GEOL 2102.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

Cross-listed: ENSC 211

GEOL 230 - Natural Disasters

Units: 3 ; G.E./G.R. Area: B1; Sustainability

Geologic processes and their effects on human populations. Topics include earthquakes, landslides, volcanic eruptions, coastal erosion, fire, floods, weather phenomena, atmospheric and water pollution.

Credit Restrictions: Not for Geology or Environmental Sciences major or minor credit

Equivalent Quarter Course: GEOL 2300 or GEOL 2301.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

G.E./G.R. Area Satisfied: *B1 - Lower Division Physical Science, Overlay - Sustainability*

GEOL 231 - Natural Hazards

Units: 3

Earth and human-induced processes and their effects on human populations. Topics include earthquakes, landslides, volcanic eruptions, coastal erosion, floods, severe storms, atmospheric and water pollution.

Credit Restrictions: Not for Geology or Environmental Sciences major or minor credit.

Equivalent Quarter Course: GEOL 2300 or GEOL 2301.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

GEOL 235 - Disasters on Earth and in Hollywood

Units: 3 ; G.E./G.R. Area: B1; Sustainability

Investigates the portrayal of Earth Science and natural disasters in popular cinema. Focuses on fundamental geologic principles and processes, the scientific method, and the importance of differentiating science from pseudo-science in modern culture, and implications for a sustainable future.

Possible Instructional Methods: *Entirely On-ground, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F or CR/NC (student choice).

G.E./G.R. Area Satisfied: *B1 - Lower Division Physical Science, Overlay - Sustainability*

Cross-listed: ENSC 235

GEOL 260 - Introduction to GIS in Earth and Environmental Sciences

Units: 3 ; G.E./G.R. Area: B1, B3

Interpretation of spatial data and preparation of maps using Geographic Information Systems. Display and manipulation of vector and raster data. Map scale, projections, and coordinate transformations. Basic database queries. Global Positioning Systems. The course will include examples from Earth sciences.

Credit Restrictions: Must be taken graded A-F for credit toward the major.

Equivalent Quarter Course: GEOL 2600.

Possible Instructional Methods: *Entirely On-ground, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F or CR/NC (student choice).

G.E./G.R. Area Satisfied: *B1 - Lower Division Physical Science, B3 - Lower Division Laboratory Activity*

Cross-listed: ENSC 260.

GEOL 297 - Introductory Field Experience

Units: 1

Applied field-based inquiry activities to introduce lower-division students to fundamental field skills that are common to field research in geology and the environmental sciences. Students spend extended periods in a natural, outdoor laboratory setting.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

Cross-listed: ENSC 297

GEOL 301 - Earth Science Connections

Units: 3

Connections between Earth science, planetary science, Earth systems (solid Earth, atmosphere, hydrosphere, biosphere), and other natural sciences and engineering, with real-world applications and examples. The goal is to prepare future teachers to implement K-12 Next Generation Science Standards with confidence.

Prerequisites: GEOL 100, and Mathematics/QR Placement Category I or II, or completion of GE area B4.

Credit Restrictions: Not for Geology or Environmental Science major credit.

Equivalent Quarter Course: GEOL 3011.

Possible Instructional Methods: *Entirely On-line.*

Grading: A-F or CR/NC (student choice).

GEOL 302 - Earth Science Connections Laboratory

Units: 1

Laboratory investigations demonstrating connections between integrated Earth system science (geology, atmosphere, oceanography, planetary science) and other natural sciences and engineering. The course focuses on K-12 Next Generation Science Standards with the goal of teaching science with confidence. Concurrent enrollment in GEOL 301 recommended.

Prerequisites: GEOL 100, and Mathematics/QR Placement Category I or II, or completion of GE area B4.

Credit Restrictions: Not for Geology or Environmental Science major credit.

Equivalent Quarter Course: GEOL 3012.

Possible Instructional Methods: *Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F or CR/NC (student choice).

GEOL 310 - Geology of the Western National Parks

Units: 3 ; G.E./G.R. Area: B6

An introductory course using selected U.S. National Parks as examples to introduce geologic topics and concepts, the features which make each park unique, and the geologic history western North America, as interpreted by features preserved in our national parks.

Prerequisites: Completion of GE areas A1, A2, A3 and B4.

Credit Restrictions: Not for Geology or Environmental Sciences major or minor credit.

Equivalent Quarter Course: GEOL 3100.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

G.E./G.R. Area Satisfied: B6 - *Upper Division Science Inquiry and Quantitative Reasoning*

GEOL 311 - Geomorphology

Units: 3

Landforms as products of diastrophism, volcanism, and surficial processes; morphogenetic regions of the Earth and the effect of climate on the processes that shape them; rates and stages of landscape evolution and their dependence on time, process and structure.

Strongly Recommended Preparation: GEOL 211.

Prerequisites: GEOL 210.

Equivalent Quarter Course: GEOL 3110.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

Cross-listed: ENSC 311

GEOL 325 - Volcanoes and Plate Tectonics

Units: 3 ; G.E./G.R. Area: B6

An introductory geology course exploring volcanoes and volcanic eruptions on Earth and in the solar system. How volcanoes work and how they affect environment, life, and society. Recent volcanism and ancient examples of mega-eruptions, and challenges of predicting future eruptions.

Prerequisites: Completion of GE areas A1, A2, A3 and B4.

Credit Restrictions: Not for Geology or Environmental Science major or minor credit.

Equivalent Quarter Course: GEOL 3050.

Possible Instructional Methods: *Entirely On-ground, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F or CR/NC (student choice).

G.E./G.R. Area Satisfied: B6 - *Upper Division Science Inquiry and Quantitative Reasoning*

GEOL 330 - Weather and the Atmosphere

Units: 3 ; G.E./G.R. Area: B6; Sustainability

Application of physical science principles in the study of the structure and circulation of the atmosphere; weather and weather forecasting. Emphasis on current issues and topics of local and global interest.

Prerequisites: Completion of GE areas A1, A2, A3 and B4.

Equivalent Quarter Course: GEOL 3040.

Possible Instructional Methods: *Entirely On-ground, Entirely On-line, Hybrid (every section of this course may be*

taught both online and on-ground).

Grading: A-F or CR/NC (student choice).

G.E./G.R. Area Satisfied: B6 - *Upper Division Science Inquiry and Quantitative Reasoning, Overlay - Sustainability*

Cross-listed: ENSC 330

GEOL 340 - The Oceans

Units: 3 ; G.E./G.R. Area: B6; Sustainability

An exploration of the interaction of oceans with the earth's geosphere, atmosphere, and biosphere. Topics include seafloor morphology, coastlines, seawater chemistry, the role the oceans play in controlling weather and climate, marine ecosystems, human impacts and dependence on the oceans.

Prerequisites: Completion of GE areas A1, A2, A3 and B4.

Credit Restrictions: Not for Environmental Sciences major credit; not for Geology major credit. Cannot earn credit for both GEOL 340 and GEOL 341.

Equivalent Quarter Course: GEOL 3401.

Possible Instructional Methods: *Entirely On-ground, Entirely On-line.*

Grading: A-F or CR/NC (student choice).

G.E./G.R. Area Satisfied: B6 - *Upper Division Science Inquiry and Quantitative Reasoning, Overlay - Sustainability*

Cross-listed: ENSC 340

GEOL 341 - General Oceanography

Units: 4

Interdisciplinary examination of the geologic, chemical, physical, and biological aspects of the oceans. Topics include seafloor morphology, coastlines, seawater chemistry, the role the oceans play in controlling weather and climate, marine ecosystems, ocean circulation, and waves. *Lecture Units: 3; Lab Units: 1*

Prerequisites: GEOL 210.

Credit Restrictions: Student cannot earn credit for both GEOL 341 and GEOL 340.

Equivalent Quarter Course: GEOL3400.

Possible Instructional Methods: *Entirely On-ground, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F or CR/NC (student choice).

GEOL 342 - Planetary Geology

Units: 3

A survey of the composition, evolution, and geologic features of planetary bodies in the Solar System. Topics include origin of the Solar System, planetary atmospheres, comparative planetology of terrestrial and Jovian planets, small bodies such as moons, comets and asteroids.

Strongly Recommended Preparation: GEOL 361, GEOL 362

Prerequisites: GEOL 210.

Possible Instructional Methods: *Entirely On-ground, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F or CR/NC (student choice).

GEOL 343 - Atmospheric Science

Units: 3

Composition, structure, and thermodynamics of the atmosphere. Cloud and precipitation formation processes. Atmospheric-ocean feedbacks. Implications of human modification of the atmosphere.

Strongly Recommended Preparation: PHYS 125 and 126, CHEM 110 or 111

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

Cross-listed: ENSC 343

GEOL 350 - Environmental Hydrology

Units: 4 ; G.E./G.R. Area: Sustainability

The hydrologic cycle and human impacts on the hydrologic cycle; quantitative assessment of hydrologic processes and concepts including precipitation, evapotranspiration, runoff, water budgets, and groundwater flow; surface water and groundwater contamination and remediation.

Prerequisites: CHEM 100, MATH 120 and PHYS 115.

Equivalent Quarter Course: GEOL 3500.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

G.E./G.R. Area Satisfied: *Overlay - Sustainability*

Cross-listed: ENSC 350.

GEOL 360 - Mineralogy and Optical Crystallography

Units: 4

Hand sample and optical mineralogy. Lecture covers crystallography, crystal chemistry, crystal structure, crystal growth, and optical properties. Laboratory emphasizes physical properties and identification of minerals in hand sample and thin section. *Lecture Units: 3; Lab Units: 1*

Prerequisites: CHEM 112 and GEOL 210.

Equivalent Quarter Course: GEOL 3601.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

GEOL 361 - Igneous and Metamorphic Petrology

Units: 4

Characteristics, phase relations, and origin of igneous and metamorphic rocks. Plate tectonic setting of magmatism and metamorphism. Rock classification based upon hand-lens and microscopic examination of mineralogy and texture. Petrologic study of selected rock suite and written report. *Lecture Units: 3; Lab Units: 1*

Prerequisites: GEOL 360.

Equivalent Quarter Course: GEOL 3701.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

GEOL 371 - Sedimentary Geology and Stratigraphy

Units: 4

Depositional systems and sedimentary processes. Facies models, succession, age relationships, and correlation of strata. Petrology and provenance of sedimentary rocks. *Lecture Units: 3; Lab Units: 1*

Prerequisites: GEOL 361.

Equivalent Quarter Course: GEOL 3801.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

GEOL 381 - Structural Geology

Units: 5

Geometric, kinematic, and dynamic analysis of geologic structures and their origins and evolution. Laboratory emphasis on descriptive geometry, stereographic solutions to structural problems and data analysis; geologic maps and structure sections. Computer methods. *Lecture Units: 3; Lab Units: 2*

Prerequisites: GEOL 360.

Equivalent Quarter Course: GEOL 3810.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

GEOL 397 - Advanced Field Experience

Units: 2

Applied field based inquiry activities to develop advanced field skills, common to field research and professional activity in geology and the environmental sciences. Students spend extended periods in a natural, outdoor laboratory setting.

Prerequisites: GEOL 297, junior or senior standing.

Repeatability: Course may be repeated for credit for a maximum of 6 units when the content varies.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

Cross-listed: ENSC 397

GEOL 398 - Internship

Units: 1-3

Introduction to the internship experience; integration of the academic program with career aspirations; emphasis on internship readiness and preparation for professional success.

Prerequisites: Department consent and minimum 2.0 GPA.

Equivalent Quarter Course: GEOL 3898.

Repeatability: Course may be repeated for a total of 6 units.

Possible Instructional Methods: *Entirely On-ground.*

Grading: CR/NC grading only.

GEOL 410 - Geohealth

Units: 3

An exploration of the multitude of environmental exposures, both natural and human-derived, that affect human health. Use of mapping in determining spatial relationships between the environment and health. Case studies including radiation exposure, contaminated drinking water, and air pollution.

Prerequisites: ENSC 280.

Possible Instructional Methods: *Entirely On-ground, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F grading only.

Cross-listed: ENSC 410.

GEOL 414 - Hazardous Waste Management

Units: 3 ; G.E./G.R. Area: Sustainability

Study of the investigation and cleanup of hazardous waste sites. Environmental regulations, hazard awareness, contaminant characterization, personal protective equipment, monitoring and sampling equipment, site characterization and control, decontamination, operational hazards and overview of emergency response.

Prerequisites: CHEM 112.

Equivalent Quarter Course: ENSC 4140.

Possible Instructional Methods: *Entirely On-ground, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F or CR/NC (student choice).

G.E./G.R. Area Satisfied: *Overlay - Sustainability*

Cross-listed: ENSC 414.

GEOL 431 - Applied Geophysics

Units: 4

Geophysical methods for determination of subsurface geology, including seismic refraction and reflection, ground-penetrating radar, gravity, magnetism, and resistivity. Basic geophysical theory. Collection of geophysical data in the field and computer analysis. *Lecture Units: 3; Lab Units: 1*

Prerequisites: GEOL 210, MATH 130 and PHYS 126.

Equivalent Quarter Course: GEOL 4010.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

GEOL 432 - Hydrogeology

Units: 4

Characteristics of aquifers, aquitards, and the vadose zone. Flow and transport in porous media. Groundwater occurrence and use in California and the Western U.S. Water-rock interaction, groundwater contamination, and cleanup methods. Groundwater management and artificial recharge.

Prerequisites: CHEM 100, MATH 120 and PHYS 115.

Equivalent Quarter Course: GEOL 4320.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

GEOL 441 - Earthquake Geology

Units: 3

Aspects of earthquake geology, plate tectonic and geographic location of seismicity; the source region and rock mechanics and deformation; seismic waves; event dating techniques and tectonic geomorphology; fault types and behavior.

Prerequisites: GEOL 381.

Equivalent Quarter Course: GEOL 4414.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

GEOL 460 - Geographic Information Systems for Earth and Environmental Sciences

Units: 4

An introduction to applications of Geographic Information Systems (GIS) to geology and other earth sciences. Application of GIS software for interpretation and analysis of spatial data. Use of digital terrain data and remotely-sensed imagery. Creation of maps and report generation. *Lecture Units: 2; Lab Units: 2*

Prerequisites: GEOL 210.

Equivalent Quarter Course: GEOL 4600.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

Cross-listed: ENSC 460

GEOL 490 - Independent Study

Units: 1-3

Students may apply no more than 9 units of independent study in the major department and 6 units in other departments to a baccalaureate degree.

Prerequisites: Department consent and minimum 2.0 GPA.

Equivalent Quarter Course: GEOL 4900.

Repeatability: May be repeated for credit for a maximum of 9 units.

Possible Instructional Methods: *Entirely On-ground.*

Grading: CR/NC grading only.

GEOL 497 - Issues in Geosciences

Units: 3

Readings, discussion and research on contemporary and/or significant issues in the Geosciences.

Equivalent Quarter Course: GEOL 3999.

Repeatability: May be repeated once for credit for a maximum of 6 units.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

GEOL 499 - Capstone Seminar in Geosciences

Units: 3

Critical, in-depth study of selected topics of current and classical research in environmental geosciences; topics not repeated in two-year interval. Emphasizes development of information literacy and writing skills to effectively communicate in the language of the discipline.

Prerequisites: Junior or senior standing.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

Cross-listed: ENSC 499

Geology: Graduate

GEOL 601 - Professional Ethics in Environmental Geosciences

Units: 1

Exploration of the ethics, roles, and responsibilities of professionals in the fields of geology and environmental science. Examination of ethics codes of professional organizations and best practices for promoting ethical behavior.

Prerequisites: Post-baccalaureate standing.

Possible Instructional Methods: *Entirely On-ground, Entirely On-line, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F grading only.

Cross-listed: ENSC 601

GEOL 602 - Graduate Seminar

Units: 2

Investigation of a selected topic in environmental geosciences.

Prerequisites: Post-baccalaureate standing.

Equivalent Quarter Course: GEOL 6811, which is taken twice for a total of four units under quarters; GEOL 602 (2 units) and GEOL 601 (1 unit) will be required once each under semesters

Repeatability: May be repeated once for elective credit with consent of instructor, for a maximum of 4 units.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

GEOL 621 - Near Surface Geophysics

Units: 4

High-resolution seismic, ground penetrating radar (GPR), electrical resistivity, magnetic, and electromagnetic methods. Geophysical data processing methods. *Lecture Units: 3; Lab Units: 1*

Equivalent Quarter Course: GEOL 6040.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

GEOL 622 - Seismic Exploration

Units: 4

Seismic exploration methods, including data acquisition, processing, modeling, and interpretation. Survey design, source and receiver types, selection of acquisition parameters. Use of processing software static and gain corrections, deconvolution, velocity analysis, migration and inversion methods. *Lecture Units: 3; Lab Units: 1*

Equivalent Quarter Course: GEOL 6020.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

GEOL 631 - Isotope Geochemistry

Units: 4

This course covers rules and assumptions for radiometric dating and examples of dating rocks and other natural materials, and rules governing fractionation of stable isotopes and applications of stable isotopes as tracers of geologic and biogeochemical processes.

Equivalent Quarter Course: GEOL 6310.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

Cross-listed: ENSC 631

GEOL 632 - Groundwater Flow and Contaminant Transport

Units: 4

Groundwater resource evaluation methods. Mathematical development of multi-dimensional flow equations. Introduction to computer models and numerical simulation. Properties of inorganic and organic groundwater contaminants. Contaminant transport processes.

Prerequisites: M.S. Geology major.

Equivalent Quarter Course: GEOL 6320.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

Cross-listed: ENSC 632

GEOL 633 - The Science of Soils

Units: 4

Aspects of soil science, including soil formation and structure, soil mineralogy, soil chemistry and fertility, soil physics, and soil ecology. Includes agricultural and urban environments, and issues such as soil contamination.

Prerequisites: CHEM 112.

Possible Instructional Methods: *Entirely On-ground, Entirely On-line, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F grading only.

Cross-listed: ENSC 633

GEOL 634 - Biogeochemistry

Units: 4

The movement of elements (including nutrients and contaminants) through the biosphere, atmosphere, geosphere, and hydrosphere. Mechanisms of transformation, including redox transformations. Elemental cycles discussed can include carbon, nitrogen, phosphorus, sulfur, iron, arsenic, chromium, selenium, etc.

Prerequisites: CHEM 112.

Possible Instructional Methods: *Entirely On-ground, Entirely On-line, Hybrid (every section of this course may be*

taught both online and on-ground).

Grading: A-F grading only.

Cross-listed: ENSC 634.

GEOL 641 - Earthquake Geology

Units: 4

Aspects of earthquake geology, plate tectonic and geographic location of seismicity; the source region and rock mechanics and deformation; seismic waves; dating techniques and tectonic geomorphology; fault types and behavior.

Prerequisites: M.S. Geology major.

Equivalent Quarter Course: GEOL 6414.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

GEOL 643 - Tectonic Geomorphology

Units: 4

Effects of earthquakes on modern landforms; types of geomorphic markers and determination of their ages; geologic structures resulting from earthquakes; geodesy and deformation rates; deformation and geomorphology at different timescales.

Prerequisites: M.S. Geology major.

Equivalent Quarter Course: GEOL 6430.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

GEOL 644 - Structural Styles of Plate Margins and Regions

Units: 4

Thematic topical study of important regions, deformational styles, or plate-margin types. Focus on reading seminal papers on the subject and contemporary work. Format is combined lecture, seminar-style discussion, and student presentations. Students write weekly précis and make one class presentation.

Prerequisites: M.S. Geology major.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

GEOL 645 - Engineering Geology

Units: 4

Application of engineering geology practices and techniques in locating and planning geological engineering projects. Use of near-surface geophysical techniques and applied methods to solve on-the-ground problems. Study of important case histories.

Equivalent Quarter Course: GEOL 6411.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

GEOL 646 - Quaternary Geology

Units: 4

Evolution of climate and landforms of the Quaternary. Emphasis on interpretation of sedimentary deposits and erosional landforms. Techniques for determination of age relationships.

Equivalent Quarter Course: GEOL 6300.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

GEOL 650 - Professional Certification Preparation

Units: 3

Content and strategies for successful completion of the requirements for the California Professional Geologist Certification. Course covers California geology, public health and safety, geologic hazards with an emphasis on seismic hazards, and California specific regulations.

Possible Instructional Methods: *Entirely On-ground, Entirely On-line, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F grading only.

GEOL 671 - Field Experience

Units: 1-2

Applied field based inquiry activities that provide students with opportunities to acquire and practice professional and technical field skills. Students spend extended periods in a natural, outdoor laboratory setting working closely with peers and instructor.

Repeatability: May be repeated for credit for a maximum of 6 units when content varies.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

Cross-listed: ENSC 671

GEOL 690 - Independent Study

Units: 1-3

Independent faculty-guided study. Students will provide a written proposal on individually selected academic topics in the discipline. Approval from a faculty member in the Department and a final report is required.

Prerequisites: Department consent and minimum 3.0 GPA.

Equivalent Quarter Course: GEOL 6900.

Repeatability: May be repeated for credit for a maximum of 3 units.

Possible Instructional Methods: *Entirely On-ground, Entirely On-line, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: CR/NC grading only.

GEOL 691 - University Thesis

Units: 1-6

Development and writing of a formal research thesis for submission to the university in the specified format. Supervision by a departmental committee, at least two of whom must be CSU East Bay faculty members. Oral defense required.

Equivalent Quarter Course: GEOL 6910.

Repeatability: May be repeated for credit for a maximum of 6 units.

Possible Instructional Methods: *Entirely On-ground.*

Grading: CR/NC grading only.

GEOL 693 - Project

Units: 1-2

Development of an original product (e.g., manuscript, education module, field map, computer model) that is summarized in a written abstract. Both project and abstract are submitted to the department, which specifies their format. Oral defense may be required.

Equivalent Quarter Course: GEOL 6899.

Repeatability: May be repeated for credit for a maximum of 2 units.

Possible Instructional Methods: *Entirely On-ground.*

Grading: CR/NC grading only.

GEOL 697 - Issues in Geosciences

Units: 3

Readings, discussion and research on contemporary and/or significant issues in the Geosciences.

Equivalent Quarter Course: GEOL 6999.

Repeatability: May be repeated for credit when content varies, for a maximum of 6 units.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

GEOL 698 - Internship

Units: 1-3

Research or professional experience with a public or private organization involved in geologic or

environmental studies, summarized in a written report.

Prerequisites: Post-baccalaureate standing.

Equivalent Quarter Course: GEOL 6420.

Repeatability: May be repeated for credit for a maximum of 3 units.

Possible Instructional Methods: *Entirely On-ground.*

Grading: CR/NC grading only.

Cross-listed: ENSC 698

Health Care Administration: Graduate

HCA 611 - Evolution of the U.S. Health Care System, Health Disparities and Policy

Units: 4

Provides critical examination of the U.S. health care system, including definitions of health and health determinants, key policies, health disparities, the role of insurance, reform efforts, and the influence of different system stakeholders including providers, patients, policymakers and payers.

Prerequisites: Admission to the MS-HCA or MPA program.

Possible Instructional Methods: *Entirely On-ground, Entirely On-line, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F grading only.

HCA 612 - Health Care Management, Leadership and Strategic Planning

Units: 4

Provides an exploration of management principles, roles and responsibilities in health care organizations, including organizational design, motivation, management theories and applications, conflict management, teamwork development, leadership styles and application, and strategic alliance formation.

Prerequisites: Admission to MS-HCA or MPA program.

Co-requisites: HCA 611.

Possible Instructional Methods: *Entirely On-ground, Entirely On-line, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F grading only.

HCA 621 - Health Care Quality Improvement Tools and Methodologies

Units: 4

Provides the development of quality assessment and improvement skills, a survey of methodologies and tools such as Six Sigma and Lean Thinking, an exploration of emerging trends, and an overview of the principles of instrumentation and measurement of health outcomes.

Prerequisites: Admission to the MS-HCA program, HCA 611 and HCA 612.

Co-requisites: HCA 622.

Possible Instructional Methods: *Entirely On-ground, Entirely On-line, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F grading only.

HCA 622 - Health Care Technology and Informatics

Units: 4

Provides an introduction to information technology and informatics, a review of the effects of information on health service design and delivery, and an examination of the primary types of health information tools, including electronic health records, telehealth and mobile health.

Prerequisites: Admission to the MS-HCA program and HCA 612.

Co-requisites: HCA 621.

Possible Instructional Methods: *Entirely On-ground, Entirely On-line, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F grading only.

HCA 631 - Health Care Financial Management and Third-Party Reimbursement

Units: 4

Provides an introduction to the tools, concepts, and applications of financial management in the health care system, including accounting, financial statement creation and analysis, working capital management, investment strategies, capital needs financing, budgeting, and third-party service reimbursement systems.

Prerequisites: Completion of University Writing Skills Requirement (UWSR), admission to the MS-HCA or MPA program and HCA 611.

Possible Instructional Methods: *Entirely On-ground, Entirely On-line, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F grading only.

HCA 641 - Health Care Legal, Diversity and Ethical Issues

Units: 4

Provides an examination of the legal, compliance, and ethical dimensions of service delivery, including the development and effects of laws and regulations, patient and human subject rights, contract law, professional ethics, tort law, malpractice, criminal law, and emerging ethical issues.

Prerequisites: Completion of University Writing Skills Requirement (UWSR), admission to the MS-HCA or MPA program and HCA 611.

Possible Instructional Methods: *Entirely On-ground, Entirely On-line, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F grading only.

HCA 642 - Health Care Program Development and Grant Writing

Units: 4

Provides introduction to the fundamentals of program development and grant proposal writing in the health care sector, including an overview of historical philanthropy, current trends, program development planning, potential funding source identification, and grant application and letter of intent writing.

Prerequisites: Completion of University Writing Skills Requirement (UWSR), admission to the MS-HCA program, HCA 621, HCA 622 and HCA 631.

Co-requisites: HCA 641.

Possible Instructional Methods: *Entirely On-ground, Entirely On-line, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F grading only.

HCA 690 - Independent Study

Units: 1-4

Independent study under the supervision of a member of the graduate faculty.

Prerequisites: Department consent and minimum 3.0 GPA.

Equivalent Quarter Course: HCA 6900.

Repeatability: May be repeated for credit, with department consent, for a total of 12 units.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

HCA 693 - Capstone Project

Units: 6

Provides a culminating set of personal, academic and professional experiences where students synthesize, integrate and apply knowledge and skill sets developed in the program in order to develop an original field-based project and demonstrate competency in the program learning outcomes.

Prerequisites: Completion of University Writing Skills Requirement (UWSR), admission to the MS-HCA program, HCA 621 and HCA 622.

Co-requisites: HCA 631.

Possible Instructional Methods: *Entirely On-ground, Entirely On-line, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F grading only.

HCA 697 - Issues in Health Care Administration

Units: 3

Readings, discussion, and research on contemporary and/or significant issues in health care administration.

Equivalent Quarter Course: HCA 6999.

Repeatability: May be repeated for credit when content varies, for a maximum of 6 units.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

HCA 698 - Internship

Units: 1-4

Formal advanced work opportunities integrating the academic program with their career aspirations.

Integral advanced hands-on experience enhancing education and preparing for professional and personal success.

Prerequisites: Department consent and minimum 3.0 GPA.

Equivalent Quarter Course: HCA 6898.

Repeatability: Course may be repeated with department consent for a maximum of 4 units.

Possible Instructional Methods: *Entirely On-ground.*

Grading: CR/NC grading only.

Health Sciences

HSC 100 - First Year Seminar in Health Sciences

Units: 3

Introduction to health care and delivery from an interdisciplinary perspective focusing on critical thinking, effective communication, research and writing, and team building skills. Emphasis is on introducing students to self-directed learning skills that are critical for a health professional.

Equivalent Quarter Course: HSC 2200 and HSC 1000.

Possible Instructional Methods: *Entirely On-ground, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F grading only.

HSC 110 - Introduction to Health Systems & Social Determinants of Health

Units: 3

The US health care system within a paradigm emphasizing social determinants of health. An exploration, using ecological frameworks, of how this integrated system incorporates social determinants of health to impact individual, community, and population outcomes, including disparities.

Equivalent Quarter Course: HSC 3300.

Possible Instructional Methods: *Entirely On-ground, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F grading only.

HSC 115 - Human Health and Wellness

Units: 3

Analysis and application of the Wellness concept for healthful living. Instruction in techniques and procedure for self-care, self-examination, emergency care and efficient utilization of the medical care system.

Equivalent Quarter Course: HSC 1100.

Possible Instructional Methods: *Entirely On-ground, Entirely On-line, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F grading only.

HSC 130 - Health Humanities

Units: 3 ; G.E./G.R. Area: C2

Introduction to the role of the humanities in health. Exploration of the importance of humanities in developing empathy, observation, and self-reflection skills necessary in health care. Human experience of illness will be explored.

Equivalent Quarter Course: HSC 3720.

Possible Instructional Methods: *Entirely On-ground, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F grading only.

G.E./G.R. Area Satisfied: *C2 - Lower Division Humanities*

HSC 250 - Health Disparities and Health Equity

Units: 3 ; G.E./G.R. Area: Diversity

History, development, and current state of health disparities. Introduction to research methods in health disparities. Discusses the concept of disparity in a public health context, and contributing factors. Covers theoretical frameworks and strategies to address health disparities.

Prerequisites: HSC 100 and HSC 110.

Equivalent Quarter Course: HSC 3800.

Possible Instructional Methods: *Entirely On-ground, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F grading only.

G.E./G.R. Area Satisfied: *Overlay - Diversity*

HSC 270 - Investigating Disease Outbreaks and Epidemics

Units: 3 ; G.E./G.R. Area: C2; Social Justice

The social, cultural and historical impact of epidemics from a humanities perspective. Applications of epidemiology to public health practice and our society. Study of the ethical and social context of epidemiology, through great works of literature and selected historical narratives.

Possible Instructional Methods: *Entirely On-ground, Entirely On-line, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F grading only.

G.E./G.R. Area Satisfied: C2 - Lower Division Humanities, Overlay - Social Justice

HSC 300 - Environmental Health

Units: 3 ; G.E./G.R. Area: B6; Sustainability

Ecological basis of environmental issues, problems and solutions to better understand and recognize human health needs and environmental well-being. The impact of climate change on the physical, biological and human environments in California will be explored.

Prerequisites: Completion of GE areas A1, A2, A3 and B4 ; and ENSC 280.

Equivalent Quarter Course: HSC 3200.

Possible Instructional Methods: *Entirely On-ground, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F grading only.

G.E./G.R. Area Satisfied: B6 - Upper Division Science Inquiry and Quantitative Reasoning, Overlay - Sustainability

HSC 310 - Community Engaged Health Promotion

Units: 3

Students will develop dynamic understandings of what constitutes a community. Focus on identifying and evaluating situations and contexts for which community engagement is pivotal for health promotion, and strategies to accomplish goals and objectives to improve public health.

Strongly Recommended Preparation: HSC 300.

Prerequisites: All of: HSC 130, HSC 250, HSC 315.

Possible Instructional Methods: *Entirely On-ground, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F grading only.

HSC 315 - Public Health

Units: 3

A critical examination of the major public health challenges facing our society. Explores how the health of a population is shaped by environmental, cultural, social and economic factors, as well as by medical care. *Lecture Units: 2; Activity Units: 1*

Prerequisites: HSC 100 and HSC 110.

Equivalent Quarter Course: HSC 3400.

Possible Instructional Methods: *Entirely On-ground, Entirely On-line, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F grading only.

HSC 323 - Plagues, Peoples, and Populations

Units: 3

The historical impact of plagues in human populations. The development of primary, secondary, and tertiary responses to epidemic and pandemic outbreaks. Focus on population-level reactions to infectious diseases such as plague, smallpox, cholera, tuberculosis, HIV, etc.

Prerequisites: HSC 315.

Possible Instructional Methods: *Entirely On-ground, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F grading only.

HSC 325 - Health Care Payment Systems

Units: 3

Fundamentals of health financing. Discussion of public and private funding mechanisms. Discussion of various payment structures, including value-based payments, fee-for-service, capitation, etc. Overview of funding streams for research, prevention activities, and education.

Prerequisites: HSC 110 and ECON 200.

Possible Instructional Methods: *Entirely On-ground, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F grading only.

HSC 327 - Genes and Human Health

Units: 3 ; G.E./G.R. Area: B6

Cell biology concepts necessary to understand genes, how they work, their role in inherited conditions that affect human health. Exploration of specific inherited diseases and recommended therapeutic technologies of gene cloning, stem-cell therapy, gene screening and gene therapy.

Strongly Recommended Preparation: BIOL 100.

Prerequisites: Completion of GE areas A1, A2, A3 and B4.

Equivalent Quarter Course: HSC 3250.

Possible Instructional Methods: *Entirely On-ground, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F grading only.

G.E./G.R. Area Satisfied: *B6 - Upper Division Science Inquiry and Quantitative Reasoning*

HSC 330 - Epidemiology

Units: 3

Meaning, scope, and applications of epidemiology to public health practice and the use of vital statistics (descriptive epidemiology and measurement of disease occurrence) and research data in the scientific appraisal of community health challenges. *Lecture Units: 2; Activity Units: 1*

Prerequisites: One of: STAT 100, STAT 110, STAT 303A.

Credit Restrictions: Not open for credit for students who have completed BIOL 3410.

Equivalent Quarter Course: HSC 3410.

Possible Instructional Methods: *Entirely On-ground, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F grading only.

HSC 335 - Pharmaceutical, Biotechnology and Medical Device Policy

Units: 3

Overview of policy issues that face the pharmaceutical, medical device and biotechnology industries. Key issues include drug development phases, patent law, mergers and acquisitions, and the role of the US industries in the global marketplace.

Prerequisites: HSC 315.

Possible Instructional Methods: *Entirely On-ground, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F grading only.

HSC 340 - Climate Change and Public Health

Units: 3

Health implications of climate change for populations. Students will explore associated health benefits accruing from mitigation strategies plus health policies involved in adaptation strategies.

Prerequisites: HSC 300.

Possible Instructional Methods: *Entirely On-ground, Entirely On-line, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F grading only.

HSC 345 - Aging and Long Term Care

Units: 3

Overview of public health and policy issues in aging and long term care. Implications of chronic illnesses and disability in the aging population. Impact of economic, political and social conditions in the provision of health care services to the elderly.

Prerequisites: HSC 315.

Possible Instructional Methods: *Entirely On-ground, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F grading only.

HSC 350 - Health Behavior and Health Education Theory

Units: 3

Major theories explaining health behaviors, and how behaviors may be modified through health education for positive outcomes. Emphasis will be on the selection and application of appropriate theories for various individual and social behaviors.

Prerequisites: All of: HSC 130, HSC 300, HSC 315.

Equivalent Quarter Course: HSC 3700.

Possible Instructional Methods: *Entirely On-ground, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F grading only.

HSC 355 - Bioethics

Units: 3

Ethical issues that arise in the health sciences including, but not limited to, clinical ethics, ethical issues in new technologies, public health ethics, and distributive justice. The course will focus on sound reasoning through discursive writing.

Prerequisites: HSC 100 and HSC 130.

Equivalent Quarter Course: HSC 3550.

Possible Instructional Methods: *Entirely On-ground, Entirely On-line, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F grading only.

HSC 360 - Health Law

Units: 3

Current federal and state health legislation, regulations, and standards. Historical development of various health programs, policies and procedures and their current legal status. Discussion of key court cases which have shaped health law in the US.

Prerequisites: HSC 110.

Equivalent Quarter Course: HSC 3350.

Possible Instructional Methods: *Entirely On-ground, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F grading only.

HSC 362 - Environmental Health Policy

Units: 3 ; G.E./G.R. Area: D4

An overview of the development, content, and implementation of environmental health policy. Students will also be introduced to concepts of environmental justice and the relationship of environmental policy to health equity. Course relies on case examples.

Prerequisites: Completion of GE areas A1, A2, A3 and B4.

Possible Instructional Methods: *Entirely On-ground, Entirely On-line, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F grading only.

G.E./G.R. Area Satisfied: D4 - Upper Division Social Sciences

HSC 365 - Mental Health and Policy

Units: 3

Public health and policy issues in mental health. Impact of economic, political, social and cultural factors in the provision of mental health care services.

Prerequisites: B.S. Health Sciences major and HSC 315.

Possible Instructional Methods: *Entirely On-ground, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F grading only.

HSC 370 - Health Economics and Public Policy

Units: 3

Economics of health and healthcare. Application of economic theories to public policy in health sector. Cost analysis, healthcare financing, public and private health insurance, and provider reimbursement models. Analysis of medical education, hospital, pharmaceutical, mental health, and long-term care markets.

Prerequisites: ECON 200 and HSC 110; HSC 110 is not required for ECON and BUAD majors.

Equivalent Quarter Course: HSC 3690.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

Cross-listed: ECON 370.

HSC 375 - Program Planning and Evaluation

Units: 3

Introduction to program planning and evaluation. Students will cover topics related to problem definition, implementation, evaluation and program theory.

Prerequisites: BS HSC major, HSC 130 and HSC 250.

Possible Instructional Methods: *Entirely On-ground, Entirely On-line, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F grading only.

HSC 380 - Health Regulation

Units: 3

The regulatory environment affecting different types of health organizations; clinical regulations involving accreditation and clinical practice; and regulations affecting populations, the environment and

other consumer products.

Prerequisites: HSC 360.

Possible Instructional Methods: *Entirely On-ground, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F grading only.

HSC 385 - Vector Control

Units: 3

The biology of vectors that transmit diseases to humans including invertebrates, vertebrates and microbes. Current methods for their control and management will be a key feature in the course.

Strongly Recommended Preparation: BIOL 230 with a C or better.

Possible Instructional Methods: *Entirely On-ground, Entirely On-line, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F grading only.

HSC 390 - Lesbian, Gay, Bisexual and Transgender (LGBT) Communities and Health

Units: 3 ; G.E./G.R. Area: C4

From the medicalization of homosexuality to the AIDS epidemic to gender expression, LGBT communities have been defined in many ways in relation to concepts of health. Relying on health humanities, this class explores LGBT cultural expression o health as meaning-making.

Strongly Recommended Preparation: HSC 130.

Prerequisites: Completion of GE areas A1, A2, A3 and B4.

Possible Instructional Methods: *Entirely On-ground, Entirely On-line, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F grading only.

G.E./G.R. Area Satisfied: *C4 - Upper Division Arts or Humanities*

HSC 398 - Internship

Units: 1-3

Introduction to the internship experience; integration of the academic program with career aspirations; emphasis on internship readiness and preparation for professional success.

Prerequisites: Department consent and minimum 2.0 GPA.

Equivalent Quarter Course: HSC 3898.

Repeatability: May be repeated with department consent for a maximum of 6 units.

Possible Instructional Methods: *Entirely On-ground.*

Grading: CR/NC grading only.

HSC 400 - Health Policy Research and Analysis

Units: 3

Healthcare is a highly complex and highly regulated industry. Using problem-based learning, students will be introduced to research and analysis of complex policy problems in healthcare. *Lecture Units: 2; Activity Units: 1*

Prerequisites: HSC 315.

Equivalent Quarter Course: HSC 4010.

Possible Instructional Methods: *Entirely On-ground, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F grading only.

HSC 405 - Toxicology

Units: 3

An introduction to the field of toxicology. Topics include toxicokinetics, organ and non-organ toxicity, environmental toxicology, and applications of toxicology in clinical, public, and environmental health settings.

Strongly Recommended Preparation: BIOL 230 with grade C or better, CHEM 112.

Possible Instructional Methods: *Entirely On-ground, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F grading only.

HSC 410 - Qualitative Methods in the Health Sciences

Units: 3

Purpose and appropriate use of qualitative methods in the health sciences. Special emphasis will be placed on the generation and interpretation of qualitative data necessary for understanding and addressing community and public health issues.

Prerequisites: HSC 130 and HSC 250.

Possible Instructional Methods: *Entirely On-ground, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F grading only.

HSC 420 - Occupational Health

Units: 3

Health and safety issues related to occupations including workplace physical, biological, and psychological hazards, safety legislation, ergonomics, workers compensation, industrial hygiene, workplace violence, disaster preparedness and terrorism.

Prerequisites: ENSC 280.

Possible Instructional Methods: *Entirely On-ground, Entirely On-line, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F grading only.

HSC 423 - Homelessness, Urban Poverty, and Health

Units: 3

Structural factors contributing to homelessness and poverty in US urban populations. Exploration of legal, political, and economic approaches to developing and delivering services at the community level. Evaluation and comparison of local efforts in different metropolitan areas.

Prerequisites: HSC 400.

Possible Instructional Methods: *Entirely On-ground, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F grading only.

HSC 435 - Life Course Perspective on Health

Units: 3 ; G.E./G.R. Area: B6

Understanding and improving public health using a life course perspective. Health outcomes reflect multilevel influences at specific developmental stages; emphasis will be on the interrelatedness of biological, social, and environmental factors on poor health and disparities.

Strongly Recommended Preparation: HSC 315

Prerequisites: Completion of GE areas A1, A2, A3 and B4.

Possible Instructional Methods: *Entirely On-ground, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F grading only.

G.E./G.R. Area Satisfied: *B6 - Upper Division Science Inquiry and Quantitative Reasoning*

HSC 440 - Global Health and Disability

Units: 3 ; G.E./G.R. Area: D4; Social Justice

Global health from the perspective of people with disabilities. Eighty percent of people with disabilities live in developing countries. Reflecting an awareness of the needs of fifteen percent of the world's population, an estimated one billion people.

Prerequisites: HSC 315; and completion of GE areas A1, A2, A3, and B4.

Equivalent Quarter Course: HSC 3100.

Possible Instructional Methods: *Entirely On-ground, Entirely On-line, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F grading only.

G.E./G.R. Area Satisfied: *D4 - Upper Division Social Sciences, Overlay - Social Justice*

HSC 445 - HIV/AIDS in a Global Context

Units: 3

Global overview of the HIV/AIDS pandemic and issues in prevention of HIV/AIDS among vulnerable populations. Emphasis on the importance of a multidisciplinary approach to the comprehension of and response to the HIV/AIDS pandemic.

Prerequisites: HSC 315.

Possible Instructional Methods: *Entirely On-ground, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F grading only.

HSC 450 - Health Communication

Units: 3

Overview of health communication theory. Covers advertising, marketing, advocacy and lobbying. Examines funding mechanisms, legal requirements and restrictions on communication campaigns. Discusses the impact of health communication on health behavior. Use of data to measure campaign effectiveness.

Prerequisites: HSC 315 and HSC 360.

Possible Instructional Methods: *Entirely On-ground, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F grading only.

HSC 455 - Management and Employment Issues in the Health Professions

Units: 3

Overview of labor and employment issues common in a health care context. Workplace health and safety, labor and employment law, civil rights in the workplace, and workforce composition. Discusses management theory, organizational behavior, professionalism and the development of leadership skills.

Prerequisites: HSC 360.

Equivalent Quarter Course: HSC 4600.

Possible Instructional Methods: *Entirely On-ground, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F grading only.

HSC 460 - Emergency Preparedness and Response

Units: 3

Introduction to public health emergency preparedness and response. It provides students with a comprehensive, multidimensional understanding of the needs of various populations in emergencies, considering the political, economic, and cultural contexts.

Prerequisites: HSC 110.

Possible Instructional Methods: *Entirely On-ground, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F grading only.

HSC 465 - Health Data and Information Management

Units: 3

Accumulation, storage and use of health information and data at the individual level and in aggregate. Topics include electronic health records, health information systems, research standards, health informatics, and applicable regulations. Includes a lab component. *Lecture Units: 2; Lab Units: 1*

Prerequisites: HSC 330 and HSC 360.

Possible Instructional Methods: *Entirely On-ground, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F grading only.

HSC 470 - Health and The Built Environment

Units: 3

Exploration of the built physical environment where humans live in the context of health. It will explore infrastructure, regional/city planning, and open spaces and how this influences individual and community health outcomes.

Prerequisites: All of: ENSC 280, HSC 100, HSC 110, HSC 300, HSC 350.

Possible Instructional Methods: *Entirely On-ground, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F grading only.

HSC 480 - State and Local Health Systems

Units: 3

Role of state and local institutions in health policy, public health, and health care. Discussion of municipal, county, and state health departments and related agencies. Impact of different types of policies, local ordinances, state legislation, case law, etc.

Strongly Recommended Preparation: HSC 380

Prerequisites: HSC 315 and HSC 360.

Possible Instructional Methods: *Entirely On-ground, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F grading only.

HSC 485 - Applications of Research Methods in Health Sciences

Units: 3

Research paradigms and concepts commonly used in health sciences. It focuses on developing pertinent health research questions, and employing appropriate methods to address current and emerging issues in public health, particularly among at-risk populations.

Strongly Recommended Preparation: HSC 350 Health Behavior & Health Education Theory

Prerequisites: All of: HSC 100, HSC 110, HSC 315, HSC 330, HSC 375, HSC 410.

Possible Instructional Methods: *Entirely On-ground, Hybrid (every section of this course may be taught both*

online and on-ground).

Grading: A-F grading only.

HSC 490 - Independent Study

Units: 1-4

Independent study under the supervision a department faculty member.

Prerequisites: Department consent and minimum 2.0 GPA.

Credit Restrictions: No more than 12 units of independent study may be applied in the major department and 8 units in other departments to a baccalaureate degree.

Equivalent Quarter Course: HSC 4900.

Repeatability: May be repeated for credit, with department consent, for a total of 12 units.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

HSC 497 - Issues in Health Sciences

Units: 3

Readings, discussion, and research on contemporary and/or significant issues in health sciences.

Equivalent Quarter Course: HSC 3999.

Repeatability: May be repeated for credit when content varies.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

HSC 499A - Capstone in Health Sciences

Units: 3

Capstone course where students apply knowledge and skills gained in their courses by exploring select issues in health, researching and analyzing existing policies to make a recommendation. Students prepare a summative professional portfolio. Lecture Units: 2; Activity Units: 1

Prerequisites: HSC 400.

Equivalent Quarter Course: HSC 4500 and HSC 4700.

Possible Instructional Methods: *Entirely On-ground, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F grading only.

HSC 499B - Capstone in Public Health Interventions

Units: 3

Capstone course where students apply knowledge and skills gained in their courses by exploring select issues public health, research and analyze existing policies to make a recommendation. Students prepare a summative professional portfolio. *Lecture Units: 2; Activity Units: 1*

Prerequisites: B.S. HSC: Concentration in Public Health major and HSC 400.

Equivalent Quarter Course: HSC 4500 and HSC 4700.

Possible Instructional Methods: *Entirely On-ground, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F grading only.

HSC 499C - Capstone in Health Policy

Units: 3

Capstone course where students apply knowledge and skills gained in their courses by exploring select health policy issues, research and analyze existing policies to make a recommendation. Students prepare a summative professional portfolio. *Lecture Units: 2; Activity Units: 1*

Prerequisites: B.S. HSC: Concentration in Health Policy major and HSC 400.

Equivalent Quarter Course: HSC 4500 and HSC 4700.

Possible Instructional Methods: *Entirely On-ground, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F grading only.

History: Applied

HIST 402 - Introduction to Public History

Units: 4

An introduction to Public History as a field and a methodology, exploring what happens to history when it leaves the classroom for public consumption in the form of museum exhibits, documentaries, etc.

Prerequisites: HIST 201.

Equivalent Quarter Course: HIST 4032.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

HIST 403 - Introduction to Digital Historical Methods

Units: 4

An introduction to Digital History-its past, its current state, and its possible future. The creation of digital projects and the evaluation of various digital tools for historical research; discussion on the place of Digital History in historiography.

Equivalent Quarter Course: HIST 3025.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

HIST 404 - Introduction to Teaching of History

Units: 4

Seminar in teaching history at the K-16 level. The course presents an overview of the way history has been taught in the U.S.; survey of current pedagogical trends; use of primary sources in the history classroom; methods for developing curriculum.

Equivalent Quarter Course: HIST 4033.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

History: Lower Division

HIST 101 - World History I

Units: 3 ; G.E./G.R. Area: C2

Prehistory to 16th century C.E.; Rise of civilization and the control/allocation of resources in the ancient/medieval world; development and spread of world religions and philosophies; empires; focus on cross-cultural encounters, social justice, and sustainability in pre-modern societies.

Equivalent Quarter Course: HIST 1015 and either HIST 1014 or HIST 1017.

Possible Instructional Methods: *Entirely On-ground, Entirely On-line.*

Grading: A-F or CR/NC (student choice).

G.E./G.R. Area Satisfied: *C2 - Lower Division Humanities*

HIST 102 - World History II

Units: 3 ; G.E./G.R. Area: C2

16th century to present. Globalization and the world system; mass culture; managing diversity and cultural identity; fall of monarchies and the emergence of republican ideals; transformative technologies and ideologies; challenges of western colonialism; cross-cultural assimilation; industrialization, secularization, environmentalism.

Equivalent Quarter Course: HIST 1015 and HIST 1016.

Possible Instructional Methods: *Entirely On-ground, Entirely On-line.*

Grading: A-F or CR/NC (student choice).

G.E./G.R. Area Satisfied: *C2 - Lower Division Humanities*

HIST 110 - The United States to 1877

Units: 3 ; G.E./G.R. Area: D1-3; US-1, US-2

The American Revolution, U.S. Constitution, Bill of Rights, federalism, Civil War, and Reconstruction in context of American diversity and socio-economic change. Meanings of freedom, equality, democracy through Reconstruction. Practice in civic engagement, historical thinking, and collaborative learning.

Equivalent Quarter Course: HIST 1101.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

G.E./G.R. Area Satisfied: D1-3 - Lower Division Social Sciences, American Institutions/Code US-1 and US-2

HIST 111 - The United States Since 1877

Units: 3 ; G.E./G.R. Area: D1-3; US-1, US-3

Major developments in United States since the Civil War, including California state and local government, in context of American diversity and socio-economic change. California as microcosm for understanding freedom, equality, democracy. Practice in civic engagement, historical thinking, and collaborative learning.

Equivalent Quarter Course: HIST 1102.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

G.E./G.R. Area Satisfied: D1-3 - Lower Division Social Sciences, American Institutions/Code US-1 and US-3

History: Graduate

HIST 600 - Reading Seminar in History

Units: 4

Readings and discussion in significant historical literature of a specific thematically or geographically-defined area of history, emphasizing the chief areas of historical controversy and interpretation. Refining skills in analysis and use of evidence through study of major historians.

Equivalent Quarter Course: Any one from: HIST 6100, HIST 6200, HIST 6300, HIST6400.

Repeatability: May be repeated for credit for a maximum of 12 units when content varies.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

HIST 610 - Research Seminar

Units: 4

Historical methodology including critical analysis and use of source materials, research and writing. Investigation of selected topics in political, economic, diplomatic, intellectual, and social history. Reports and discussion.

Equivalent Quarter Course: HIST 6010.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

HIST 630 - Graduate Historiography

Units: 4

Intensive readings and discussions on the writing and philosophy of history. Written and oral critical

analyses are required.

Equivalent Quarter Course: HIST 6030.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

HIST 641 - Graduate Internship

Units: 4

Supervised field work in non-academic settings, such as museums, libraries, archives, private business and government agencies, or historical preservation programs.

Prerequisites: Department consent.

Equivalent Quarter Course: HIST 6901.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

HIST 642 - Public History Practicum

Units: 4

Advanced hands-on experience in the field of public history. Working as a project team, students will contribute to a public history project in collaboration with a museum, historic site, agency, or organization in the SF Bay Area. Field work may be required.

Prerequisites: HIST 402.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

HIST 643 - Digital History Practicum

Units: 4

The creation and maintenance of a digital historical project; creation of a responsible digital presence that can be used for a portfolio; critical examination into the history and use of digital research.

Prerequisites: HIST 403.

Possible Instructional Methods: *Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F grading only.

HIST 644 - Teaching History Practicum

Units: 4

Regular discussions of problems and trends in the teaching of history. Completion of project related to methods and theories of the teaching of history. May count as elective or substitute (with approval) for HIST 404.

Prerequisites: HIST 404.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

HIST 651 - Graduate Portfolio

Units: 2

Under the direction of a graduate advisor, student will create a digital portfolio that they will use to compile graduate work from all subsequent graduate courses.

Equivalent Quarter Course: HIST 6050.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

HIST 652 - Scholarly Practicum

Units: 2

Under the direction of a graduate advisor, students will professionally present, submit for publication and/or otherwise publicly present their research from their graduate work.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

HIST 690 - Independent Study

Units: 1-4

Individual or small group work with faculty member on specific topic not offered as regular coursework according to the catalog. May substitute for electives in certain circumstances, with approval.

Prerequisites: Department consent and minimum 3.0 GPA.

Equivalent Quarter Course: HIST 6900.

Repeatability: May be repeated for credit for a maximum of 8 units when content varies.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

HIST 691 - University Thesis

Units: 6

Development and writing of a formal research paper for submission to the University in the specified format. Supervision by a departmental committee, at least one of whom must be a Cal State East Bay faculty member.

Prerequisites: Department consent.

Equivalent Quarter Course: HIST 6910.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

HIST 692 - Comprehensive Exam Review

Units: 6

Selected readings in consultation with two faculty members in preparation for the Master's Comprehensive Written Examination in history. The reading list and the exams must be consistent with the student's areas of concentration and approved by the faculty mentors.

Prerequisites: Completion of GE area B4.

Equivalent Quarter Course: HIST 6905.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

HIST 697 - Issues in History

Units: 4

Readings, discussion, and research on contemporary and/or significant issues in history.

Equivalent Quarter Course: HIST 6999.

Repeatability: May be repeated for credit for a maximum of 8 units when content varies.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

HIST 699 - Departmental Thesis

Units: 6

Development and writing of a research paper for submission to the department which specifies its format. Supervision by a departmental committee, at least one of whom must be a Cal State East Bay faculty member. Oral defense normally required.

Prerequisites: Completion of GE area B4.

Equivalent Quarter Course: HIST 6909.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

History: Migration and Globalization

HIST 322 - Warfare, Genocide, Terrorism: Globalization Through Conflict Since 1914

Units: 3 ; G.E./G.R. Area: C4

History of violence as a catalyst for globalization. Troop mobilizations, forced resettlements, genocidal regimes, transnational terrorist networks, mass migrations; conflict prevention, peace movements, human rights, refugee response. World Wars I & II, Holocaust, Cold War, rise of terrorism, United Nations.

Prerequisites: Completion of GE areas A1, A2, A3 and B4.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

G.E./G.R. Area Satisfied: *C4 - Upper Division Arts or Humanities*

HIST 327 - Love, Sex, Family: Globalization and Private Life Since 1914

Units: 3 ; G.E./G.R. Area: C4

Impact of globalization on private life: effects of migration, decolonization, diasporas, international education on personal relationships. "World" literature as a window into personal experiences of globalization. Reading novels, plays and short stories historically; using diaries and memoirs as primary sources.

Prerequisites: Completion of GE areas A1, A2, A3 and B4.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

G.E./G.R. Area Satisfied: *C4 - Upper Division Arts or Humanities*

HIST 328 - 20th Century World

Units: 3 ; G.E./G.R. Area: C4

World history from WWI to Soviet collapse, focusing on diplomacy, economics, and political/social trends. The world wars, Russian revolution and Stalinism, fascism and Nazism, Chinese Revolution, Cold War, decolonization and end of Western hegemony, globalization of world economy.

Prerequisites: Completion of GE areas A1, A2, A3 and B4.

Equivalent Quarter Course: HIST 3017.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

G.E./G.R. Area Satisfied: *C4 - Upper Division Arts or Humanities*

HIST 331 - The Barbarians

Units: 3 ; G.E./G.R. Area: C4

To ca. 1000 C.E. The Franks, Visigoths, Ostrogoths, Angles, Saxons, and the Vandals. Early movements/cultures/religions of these non-Roman peoples.

Prerequisites: Completion of GE areas A1, A2, A3 and B4.

Possible Instructional Methods: *Entirely On-ground, Entirely On-line, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F or CR/NC (student choice).

G.E./G.R. Area Satisfied: *C4 - Upper Division Arts or Humanities*

HIST 336 - Ancient Greece

Units: 3 ; G.E./G.R. Area: C4

From the Bronze Age to the Roman takeover. The Mycenaean world; the Homeric World; the development of the city-state; classical thought and culture; the Persian and Peloponnesian Wars; the rise of Macedon; its defeat by Rome.

Prerequisites: Completion of GE areas A1, A2, A3 and B4.

Equivalent Quarter Course: HIST 3107.

Possible Instructional Methods: *Entirely On-ground, Entirely On-line, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F or CR/NC (student choice).

G.E./G.R. Area Satisfied: *C4 - Upper Division Arts or Humanities*

HIST 338 - The Roman Empire

Units: 3 ; G.E./G.R. Area: C4

Roman history from the rise of Augustus to 565 AD; The Age of Augustus; pax Romana ; the rise of the empire; Christianity and decline of paganism; barbarian incursions; decline of the empire in the west; rise of Byzantium.

Prerequisites: Completion of GE areas A1, A2, A3 and B4.

Possible Instructional Methods: *Entirely On-ground, Entirely On-line, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F or CR/NC (student choice).

G.E./G.R. Area Satisfied: *C4 - Upper Division Arts or Humanities*

HIST 344 - Revival and Reform in Early Modern Europe

Units: 3 ; G.E./G.R. Area: C4

Europe from 1350-1550. Renaissance arts, science, humanism, and individualism; the rise of Protestant movements and the Catholic response; new global connections and a changing economy

Prerequisites: Completion of GE areas A1, A2, A3 and B4.

Equivalent Quarter Course: HIST 3130.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

G.E./G.R. Area Satisfied: *C4 - Upper Division Arts or Humanities*

HIST 352 - Modern Europe: Unity and Diversity

Units: 3 ; G.E./G.R. Area: C4

Survey of European history from the French Revolution to today. Fall of monarchy, rise of competing political ideologies/regimes, industrialization, secularization, science. Special attention to internal and external colonization, race and multi-ethnic societies, national cultures, personal identities, social justice.

Prerequisites: Completion of GE areas A1, A2, A3 and B4.

Equivalent Quarter Course: HIST 3170.

Possible Instructional Methods: *Entirely On-ground, Entirely On-line, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F or CR/NC (student choice).

G.E./G.R. Area Satisfied: *C4 - Upper Division Arts or Humanities*

HIST 361 - Traditional India

Units: 3

Ancient and medieval South Asia (the Indian subcontinent) from the Indus Valley Civilization to 18th century. Hinduism and Buddhism; introduction of Islam and formation of Indo-Muslim society; religious and ethnic communities; creation of states and empires; arrival of Europeans.

Equivalent Quarter Course: HIST 3303.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

HIST 362 - Modern South Asia

Units: 3 ; G.E./G.R. Area: C4

History, culture and political economy of the Indian subcontinent from the seventeenth century to present. Decline of Mughal empire, British colonial conquest, anti-colonial resistance, nationalism and religious identity, Gandhi, independence, post-colonial India, Pakistan, and Bangladesh

Prerequisites: Completion of GE areas A1, A2, A3 and B4.

Equivalent Quarter Course: HIST 3305.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

G.E./G.R. Area Satisfied: *C4 - Upper Division Arts or Humanities*

HIST 363 - The Middle East and the Rise of Islamic Societies

Units: 3 ; G.E./G.R. Area: C4

Middle East from 600 to 1750. Beginnings of Islam; establishment of Muslim rule from Spain to Central Asia; emergence of Islamic civilization and contributions by non-Muslims; religious, political, and intellectual debates; contacts with Europe and Asia; establishment of Turkish power.

Prerequisites: Completion of GE areas A1, A2, A3 and B4.

Equivalent Quarter Course: HIST 3340.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

G.E./G.R. Area Satisfied: *C4 - Upper Division Arts or Humanities*

HIST 364 - The Modern Middle East

Units: 3 ; G.E./G.R. Area: C4

Emergence of states and societies of the modern Middle East. Disintegration of pre-modern empires and evolution from traditional societies into modern nation-states of the Arab world, Turkey, and Iran; responses to Western colonialism; socio-religious reform; nationalism, pan-Arabism, and Islamism.

Prerequisites: Completion of GE areas A1, A2, A3 and B4.

Equivalent Quarter Course: HIST 3345.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

G.E./G.R. Area Satisfied: *C4 - Upper Division Arts or Humanities*

HIST 380 - The American West

Units: 3 ; G.E./G.R. Area: C4

Human habitation and transformation of western environments from c. 15,000 BCE to present. Contending claims of sovereignty; resource extraction and economic competition; colonization; transportation, communication, and exchange; warfare and diplomacy; community formation and nation building; race, citizenship, and belonging.

Prerequisites: Completion of GE areas A1, A2, A3 and B4.

Equivalent Quarter Course: HIST 3511.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

G.E./G.R. Area Satisfied: *C4 - Upper Division Arts or Humanities*

HIST 383 - Mexican Americans in the West

Units: 3 ; G.E./G.R. Area: C4

Survey of the Mexican immigrant and Mexican American experience in the US, with focus on the American West. Topics include: the Mexican American War; development of the Barrio; deportations, Zoot Suit riots, civil rights and the Chicano Movement; contemporary issues.

Prerequisites: Completion of GE areas A1, A2, A3 and B4.

Equivalent Quarter Course: HIST 3515.

Possible Instructional Methods: *Entirely On-line.*

Grading: A-F or CR/NC (student choice).

G.E./G.R. Area Satisfied: *C4 - Upper Division Arts or Humanities*

HIST 387 - Immigration and the Contested American Identity

Units: 3 ; G.E./G.R. Area: C4

An exploration into the evolving conversation about immigration in US History. Concentration on race, ethnicity, and notions of 100% Americanism, nativism and nationalism. Focus is on the era of exclusion post 1882.

Prerequisites: Completion of GE areas A1, A2, A3 and B4.

Equivalent Quarter Course: HIST 3517.

Possible Instructional Methods: *Entirely On-line, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F or CR/NC (student choice).

G.E./G.R. Area Satisfied: C4 - Upper Division Arts or Humanities

HIST 391 - Latin America: Conquest to Revolution

Units: 3 ; G.E./G.R. Area: C4

Indigenous Indian world, origins of Spanish and Portuguese empires, violent conquest, Atlantic slave trade, environmental transformation, colonial administration, Pacific expansion, Africans in the Caribbean, religious syncretism, baroque art and music, racial creolization, international trade and warfare, the Age of Revolution.

Prerequisites: Completion of GE areas A1, A2, A3 and B4.

Equivalent Quarter Course: HIST 3600.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

G.E./G.R. Area Satisfied: C4 - Upper Division Arts or Humanities

HIST 394 - US Mexico Relations Since 1810

Units: 3

U.S.-Mexican relations since 1810 including the Texas Rebellion, U.S.-Mexican War, U.S. economic and military intervention, deportations in the 20th century, the Mexican foreign debt crisis, the narcotics trade, NAFTA, and the Mexican immigrant community in the United States.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

HIST 475 - The Pacific World

Units: 3

Emergence and elaboration of Pacific networks of travel, trade, communication, and migration from the 18th century to the 21st; indigenous Pacifics; Asian, European, and American exploration, colonization, and competition; environmental transformation; transpacific labor and commerce.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

HIST 478 - Borderlands in North America

Units: 3 ; G.E./G.R. Area: C4

Investigation of the interactions of peoples, nations, and empires across the boundaries of North America,

including Canada, the United States, and Mexico. Topics include imperial competition and native peoples, slavery and fugitivism, and conflict and cooperation across national borders.

Prerequisites: Completion of GE areas A1, A2, A3 and B4.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

G.E./G.R. Area Satisfied: *C4 - Upper Division Arts or Humanities*

History: Social Justice and Citizenships

HIST 320 - Transnational Revolution in the Modern World

Units: 3

Global history of modern revolution. Emphasis on France, Russia, China. Evolving ideals of social justice and equality; cross-border movement of revolutionary people and technologies; transnational impact of revolutionary wars/civil wars; espionage and diplomacy in new regimes.

Possible Instructional Methods: *Entirely On-ground, Entirely On-line, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F or CR/NC (student choice).

HIST 321 - Communism as Civilization

Units: 3

Global history of communism. Early utopian socialists; 20th century communist regimes; communist states after "collapse." Emphasis on new genres of art, distinctive material cultures, daily life, state-society relations, sustainability of social transformation, planned economies/black markets, national/international agendas.

(See Errata for changes to this content).

Possible Instructional Methods: *Entirely On-ground, Entirely On-line, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F or CR/NC (student choice).

HIST 326 - Global Feminisms: A History

Units: 3

Introduction to movements for women's rights (educational, political, economic, sexual, and reproductive) around world since 1900. Focus on the different national and international contexts in which the varied forms of feminist thought and women's activism arise.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

HIST 332 - Tolerance and Intolerance in the Roman Empire

Units: 3 ; G.E./G.R. Area: C4

To 600 C.E. History of tolerance/persecution in the Roman period through Late Antiquity; the persecution of the Christians by Roman officials; of Christians by Christians; and the persecution of other groups by the Christians. Roman law and punishment.

Prerequisites: Completion of GE areas A1, A2, A3 and B4.

Possible Instructional Methods: *Entirely On-ground, Entirely On-line, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F or CR/NC (student choice).

G.E./G.R. Area Satisfied: *C4 - Upper Division Arts or Humanities*

HIST 335 - Rome and Christianity

Units: 3 ; G.E./G.R. Area: C4

Christianity from its earliest period through the beginning of the 400s AD through archaeology, art, and documentary evidence; Women in Early Christianity; Ecclesiology and the rise of the episcopacy; Orthodoxy/Heterodoxy; Christology; the interactions between the non-Christians and Christians.

Prerequisites: Completion of GE areas A1, A2, A3 and B4.

Equivalent Quarter Course: HIST 3114.

Possible Instructional Methods: *Entirely On-ground, Entirely On-line, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F or CR/NC (student choice).

G.E./G.R. Area Satisfied: *C4 - Upper Division Arts or Humanities*

HIST 342 - Unity and Diversity in the Middle Ages

Units: 3

Establishment of European Christendom from ca. 500. A transnational church and its challengers; popular Christianity and the theologians; the medieval Other: Saracens, heretics, and Jews; the dissolution of the medieval order.

Equivalent Quarter Course: HIST 3123.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

HIST 343 - Society and Culture in the High Middle Ages

Units: 3 ; G.E./G.R. Area: C4

Europe from ca. 1050 to ca. 1400; expansion of the European economy; the ascendant church; royal power and national identities, new learning; crusades; dissent and reform; the crisis of the fourteenth century

Prerequisites: Completion of GE areas A1, A2, A3 and B4.

Equivalent Quarter Course: HIST 3128.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

G.E./G.R. Area Satisfied: *C4 - Upper Division Arts or Humanities*

HIST 372 - Slavery and Freedom in the Atlantic World

Units: 3

Old-world slavery, origins and impact of African slave trade, mercantilism, slave codes, other unfree labor; indigenous freedom, religious and political liberty, rights and equality, free labor, democratic movements; interracial relations, religious critiques, African resisters, Quaker antislavery, freedom vs. unfreedom, abolitionism.

Possible Instructional Methods: *Entirely On-ground, Entirely On-line.*

Grading: A-F or CR/NC (student choice).

HIST 373 - The American Revolution

Units: 3

Global and democratic perspectives: imperial competition, political and religious diversity, the slave trade and immigration, the West, Founders and Loyalists, agitation and mobilization, independence and war, democratic rebellions, constitutions and rights, emancipation and equality, political economy, global impact.

(See Errata for changes to this content).

Prerequisites: Completion of GE A1, A2, A3, and B4.

Equivalent Quarter Course: HIST 3412.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

HIST 374 - The Constitution and Its Times

Units: 3

Revolutionary origins of U.S. Constitution: imperial context, state constitutions, politics and religion, the West, the Philadelphia Convention, the Framers, republicanism v. democracy, slavery v. antislavery, Ratification, equality and rights, federalism, insiders and outsiders, national and global legacies.

Equivalent Quarter Course: HIST 3411.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

HIST 375 - Religion and Diversity in America

Units: 3 ; G.E./G.R. Area: C4

Indigenous America, religious imperialism, Puritanism and Protestant migrations, evangelicalism and rationalism, church and state, Black faiths, Catholic America, Mormonism, the Civil War and death,

Progressive-era religion, Jewish America, Modernism v. Fundamentalism, Liberalism v. Conservatism, New Age, American Muslims, new faiths.

Prerequisites: Completion of GE areas A1, A2, A3 and B4.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

G.E./G.R. Area Satisfied: *C4 - Upper Division Arts or Humanities*

HIST 376 - Destroying Slavery in the US Civil War

Units: 3

Examination of the Civil War and Reconstruction with a focus upon ethical perspectives in policy and warfare; expectations and agency among enslaved and free African Americans; relations with Native Americans.

Equivalent Quarter Course: HIST 3414.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

HIST 378 - The Nineteenth Century in the US

Units: 3 ; G.E./G.R. Area: C4

The "long 19th century," 1780s to 1910s. Expansion and abolition of slavery; causes and legacies of Civil War; colonization of several wests; labor and property; cultural change; race, gender, and the development of American political and legal institutions.

Prerequisites: Completion of GE areas A1, A2, A3 and B4.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

G.E./G.R. Area Satisfied: *C4 - Upper Division Arts or Humanities*

HIST 379 - Native North America

Units: 3

Paleo-Indian settlement to present. The diversity of native life in North America; engagement and conflict with Europeans; responses to the territorial expansion of the United States; kinship and community; land and sovereignty; political and legal issues in Indian Country.

Equivalent Quarter Course: HIST 3535.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

HIST 381 - US Political History

Units: 3

Colonies, revolution and independence; changing concepts of democracy, rights, and citizenship; the Constitution; development of American party systems; politics of slavery and anti-slavery; post-Civil War revolutions; corruption and reform; growth of the state; political movements.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

HIST 384 - Modern American Thought

Units: 3 ; G.E./G.R. Area: C4

Intellectual, political, and cultural ideas, ideologies, and movements in twentieth-century United States. Focus on Progressivism, Pragmatism, the Romantic Left, Socialism, Unionism, Utopianism, Liberalism, the New Left, and Conservatism.

Prerequisites: Completion of GE areas A1, A2, A3 and B4.

Equivalent Quarter Course: HIST 3553.

Possible Instructional Methods: *Entirely On-ground, Entirely On-line.*

Grading: A-F or CR/NC (student choice).

G.E./G.R. Area Satisfied: *C4 - Upper Division Arts or Humanities*

HIST 385 - Race and the Modern American Nation

Units: 3

Discussion of the evolution of racial identities in the United States since the Civil War. Topics include: Jim Crow South; Social Darwinism; Asian and Mexican diasporas; poverty and race; evolution of legal status; the concepts of "whiteness" and "colorism".

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

HIST 389 - Social Justice and Reform Movements in America

Units: 3 ; G.E./G.R. Area: D4; Social Justice

Examination of reform movements in US history, which may include: Abolitionism, Evangelicalism, Reconstruction, Labor, Civil Rights, feminism, environmentalism, LGBTQ rights, and the rise of the Religious Right; including discussion of what drives organization, identity development and tactics employed for change.

Prerequisites: Completion of GE areas A1, A2, A3 and B4.

Possible Instructional Methods: *Entirely On-ground, Entirely On-line.*

Grading: A-F or CR/NC (student choice).

G.E./G.R. Area Satisfied: *D4 - Upper Division Social Sciences, Overlay - Social Justice*

HIST 393 - Revolutionary Thought in Latin America

Units: 3 ; G.E./G.R. Area: D4

History of revolutionary thought in Latin America as a focus of political and social change, organizing and armed initiatives; discussion of revolutionary theory with a specific focus on race, ethnicity, sexuality, class, and gender.

Prerequisites: Completion of GE areas A1, A2, A3 and B4.

Equivalent Quarter Course: HIST 3605.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

G.E./G.R. Area Satisfied: *D4 - Upper Division Social Sciences*

HIST 461 - India Through Film

Units: 3

An exploration of Indian / South Asian history, and its construction, through documentary and dramatic films. Topics will include: nationalism, class, caste, gender, sexuality, and community identity formation in both India and the South Asian diaspora.

Equivalent Quarter Course: HIST 3307.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

HIST 471 - History of the East Bay: Community Research and Engagement

Units: 3

A research-based course designed to bring students into the local Bay Area community to conduct research, investigate community stories and understand the link between history and community identity.

Equivalent Quarter Course: HIST 3503.

Possible Instructional Methods: *Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F or CR/NC (student choice).

HIST 472 - War and Peace in US History

Units: 3 ; G.E./G.R. Area: C4

An examination of pacifism and militarism in the United States; how our society has come to define and react to pacifists, "good wars", international peace-keeping, anti-war demonstrations, and a shifting perception of military personnel.

Prerequisites: Completion of GE areas A1, A2, A3 and B4.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

G.E./G.R. Area Satisfied: *C4 - Upper Division Arts or Humanities*

HIST 473 - Sexuality and Identity in US History

Units: 3 ; G.E./G.R. Area: C4

Diversity of sexualities and identities in U.S. history. Effects of regional and ethnic/racial family patterns; responses to urbanization, industrialization, migrations, and technology; changing roles of families, children, and developments in marriage and other expressions of love, obligation, and cooperation.

Prerequisites: Completion of GE areas A1, A2, A3 and B4.

Equivalent Quarter Course: HIST 3570.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

G.E./G.R. Area Satisfied: *C4 - Upper Division Arts or Humanities*

HIST 474 - Women, Gender and Rights in US History

Units: 3 ; G.E./G.R. Area: C4

Diversity of women's contributions, female gender roles and identities, and gendered cultures across U.S. history from pre-colonial period to the present and women's status in the social, cultural, economic, and political life of the nation across ethnicity, race, and class.

Prerequisites: Completion of GE areas A1, A2, A3 and B4.

Equivalent Quarter Course: HIST 3571.

Possible Instructional Methods: *Entirely On-ground, Entirely On-line.*

Grading: A-F or CR/NC (student choice).

G.E./G.R. Area Satisfied: *C4 - Upper Division Arts or Humanities*

HIST 479 - World War II: Global Warfront, Local Homefront

Units: 3 ; G.E./G.R. Area: D4

An examination of the WWII era, starting with the Great Depression and discussing human and ideological conflict on the US Homefront and in the global theater. Making connections between the war abroad and the war at home.

Prerequisites: Completion of GE areas A1, A2, A3 and B4.

Equivalent Quarter Course: HIST 3416.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

G.E./G.R. Area Satisfied: *D4 - Upper Division Social Sciences*

HIST 488 - Education and American Democracy

Units: 3 ; G.E./G.R. Area: C4

Major themes in American democracy through prism of education. Focus on early public and religious experiments, immigration and parochial schools, Reconstruction, the Borderlands, Progressive reform, professionalization of teaching, the struggle for desegregation, California Master Plan, equality and diversity.

Prerequisites: Completion of GE areas A1, A2, A3 and B4.

Equivalent Quarter Course: HIST 3400.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

G.E./G.R. Area Satisfied: *C4 - Upper Division Arts or Humanities*

History: Sustainability and Modernization

HIST 277 - Science and Culture in the History of Medicine in the United States

Units: 3 ; G.E./G.R. Area: C2; Writing II

History of medicine in the US from the colonial period to the present, including: emergence of the medical profession, the rise of the hospital, the relationship between medicine and science, and the role of politics, cultural beliefs, and religious values.

Prerequisites: Completion of GE area A2.

Possible Instructional Methods: *Entirely On-ground, Entirely On-line, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F or CR/NC (student choice).

G.E./G.R. Area Satisfied: *C2 - Lower Division Humanities, Writing II*

HIST 323 - Global Environmental History

Units: 3 ; G.E./G.R. Area: C4

Seminar discussing the historical roots of global contemporary issues in environmental politics, health and sustainability. Focus on the human relationship to the natural world and how diverse cultures have lived within their environments.

Prerequisites: Completion of GE areas A1, A2, A3 and B4.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

G.E./G.R. Area Satisfied: *C4 - Upper Division Arts or Humanities*

HIST 333 - Sustainability in the Ancient World

Units: 3 ; G.E./G.R. Area: C4; Sustainability

Examination of how the ancient world preserved its cultures and economies during times of war, climate change, disease, and the use/misuse of natural resources; social justice.

Prerequisites: Completion of GE areas A1, A2, A3 and B4.

Possible Instructional Methods: *Entirely On-ground, Entirely On-line, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F or CR/NC (student choice).

G.E./G.R. Area Satisfied: *C4 - Upper Division Arts or Humanities, Overlay - Sustainability*

HIST 334 - Ancient Egyptian Civilization

Units: 3 ; G.E./G.R. Area: C4

10,000 B.C.E. to 400 C.E. The formation of the Egyptian state; social classes; interactions with other Mediterranean/Middle Eastern cultures, and religion. Special focus on sustainability.

Prerequisites: Completion of GE areas A1, A2, A3 and B4.

Equivalent Quarter Course: HIST 3100.

Possible Instructional Methods: *Entirely On-ground, Entirely On-line, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F or CR/NC (student choice).

G.E./G.R. Area Satisfied: *C4 - Upper Division Arts or Humanities*

HIST 337 - The Roman Republic

Units: 3 ; G.E./G.R. Area: C4

Roman history from foundation to the rise of Augustus. Neolithic; Etruscans; Republic and Punic Wars; Julius Caesar; Age of Augustus, and the pax Romana; interactions with other civilizations, with a special focus on migrations and sustainability.

Prerequisites: Completion of GE areas A1, A2, A3 and B4.

Possible Instructional Methods: *Entirely On-ground, Entirely On-line, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F or CR/NC (student choice).

G.E./G.R. Area Satisfied: *C4 - Upper Division Arts or Humanities*

HIST 341 - The Birth of Europe

Units: 3 ; G.E./G.R. Area: C4

Europe from the decline of Roman power in the West to the Gregorian Reform; the rise of Germanic kingdoms; cultural breaks and continuities; the land and its peoples; localism, trade networks, and a transnational church.

Prerequisites: Completion of GE areas A1, A2, A3 and B4.

Equivalent Quarter Course: HIST 3127.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

G.E./G.R. Area Satisfied: *C4 - Upper Division Arts or Humanities*

HIST 345 - Conflict and Expansion in Early Modern Europe

Units: 3

Europe 1550 to 1789. Religious conflict and resolution; age of exploration and discovery; intellectual and technological effects of the Scientific Revolution; art and literature; absolutism, constitutionalism, and state building; political revolutions; thought and culture of the Enlightenment.

Equivalent Quarter Course: HIST 3150.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

HIST 351 - Russia: Peter to the Present

Units: 3

Survey of Russian history with emphasis on everyday life and culture through film, art, literature, and music. Politics of Imperial, Soviet, contemporary Russia through lens of sustainability. Environment economy, state-society relations, foreign relations, national minorities, rebellion/dissent.

(See Errata for changes to this content).

Equivalent Quarter Course: HIST 3223.

Possible Instructional Methods: *Entirely On-ground, Entirely On-line, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F or CR/NC (student choice).

HIST 365 - China: Origins to Mongol Conquest

Units: 3 ; G.E./G.R. Area: D4

Chinese history from the archaeological period. Dynastic history, statecraft, origins of the bureaucratic state, regional economic/cultural differentiation, crises of sustainability. Confucius, Buddhism and Daoism, Chinese notions of the natural world, social order and just government.

Prerequisites: Completion of GE areas A1, A2, A3 and B4.

Equivalent Quarter Course: HIST 3311.

Possible Instructional Methods: *Entirely On-ground, Entirely On-line, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F or CR/NC (student choice).

G.E./G.R. Area Satisfied: *D4 - Upper Division Social Sciences*

HIST 366 - China: Ming Dynasty to Today

Units: 3 ; G.E./G.R. Area: C4

Survey of modern Chinese history through lens of sustainability. Ming and Qing dynasties, Republican and Communist regimes. Literati and popular culture, philosophical shifts, literature, material arts. Commercialization, urbanization, rebellion/dissent, nationalism, foreign relations, role of diaspora in contemporary China.

Prerequisites: Completion of GE areas A1, A2, A3 and B4.

Equivalent Quarter Course: HIST 3313.

Possible Instructional Methods: *Entirely On-ground, Entirely On-line, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F or CR/NC (student choice).

G.E./G.R. Area Satisfied: *C4 - Upper Division Arts or Humanities*

HIST 367 - Japan: Origins to Tokugawa

Units: 3 ; G.E./G.R. Area: C4

Cultural, social, and political history of Japan to 1600, with special emphasis on the aristocracy, the samurai, interactions with the outside world, and the transformed from a geographically- and culturally-isolated archipelago to a rapidly modernizing nation-state.

Prerequisites: Completion of GE areas A1, A2, A3 and B4.

Equivalent Quarter Course: HIST 3322.

Possible Instructional Methods: *Entirely On-line.*

Grading: A-F or CR/NC (student choice).

G.E./G.R. Area Satisfied: *C4 - Upper Division Arts or Humanities*

HIST 368 - Japan, Tokugawa to Today

Units: 3 ; G.E./G.R. Area: C4

The political, social, and cultural dimensions of Japan's transformation from the Meiji Restoration, to its defeat in 1945, to becoming a world economic power today. Special focus will be on sustainability.

Prerequisites: Completion of GE areas A1, A2, A3 and B4.

Equivalent Quarter Course: HIST 3323 and HIST 3325.

Possible Instructional Methods: *Entirely On-ground, Entirely On-line.*

Grading: A-F or CR/NC (student choice).

G.E./G.R. Area Satisfied: *C4 - Upper Division Arts or Humanities*

HIST 369 - The Korean Peninsula

Units: 3 ; G.E./G.R. Area: C4

The political, social, and cultural history of the Korean peninsula from its origins to the present; focus on geographic factors, indigenous developments, and foreign encounters.

Prerequisites: Completion of GE areas A1, A2, A3 and B4.

Possible Instructional Methods: *Entirely On-ground, Entirely On-line.*

Grading: A-F or CR/NC (student choice).

G.E./G.R. Area Satisfied: *C4 - Upper Division Arts or Humanities*

HIST 371 - North America: 1492-1850

Units: 3 ; G.E./G.R. Area: C4

Major topics from colonization to U.S.-Mexican War: Native peoples, European imperialism, African diasporas, environmental change, religious conflict and synthesis, enlightenment, global warfare, revolutionary upheaval and legacy, industrialization, gender relations, la frontera, California.

Prerequisites: Completion of GE areas A1, A2, A3 and B4.

Equivalent Quarter Course: HIST 3530.

Possible Instructional Methods: *Entirely On-line.*

Grading: A-F or CR/NC (student choice).

G.E./G.R. Area Satisfied: *C4 - Upper Division Arts or Humanities*

HIST 377 - The Birth of American Popular Culture

Units: 3

Creation of popular culture in early 19th century America, including shifting ideas of religion, gender, sex, race and bodies. Examines popular culture and sensationalism as a print revolution, with comparisons to contemporary social media.

Equivalent Quarter Course: HIST 3413.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

HIST 382 - California and the World

Units: 3 ; G.E./G.R. Area: D4; US-3

From c. 15,000 BCE to present. Significance in international and national histories; environmental, cultural, and social diversity; economic development and conflict; migrations and immigration; urbanization and suburbanization; land ownership and use; history of legal and political rights; social movements.

Prerequisites: Completion of GE areas A1, A2, A3 and B4.

Equivalent Quarter Course: HIST 3500.

Possible Instructional Methods: *Entirely On-ground, Entirely On-line.*

Grading: A-F or CR/NC (student choice).

G.E./G.R. Area Satisfied: *D4 - Upper Division Social Sciences, American Institutions/Code US-3*

HIST 386 - Food and Justice in US History

Units: 3 ; G.E./G.R. Area: C4

A look at the intersections between food access and race, class and social justice in US History, including discussions on the evolution of land access and agriculture, modernization, poverty, culture and nutrition, urban food deserts.

Prerequisites: Completion of GE areas A1, A2, A3 and B4.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

G.E./G.R. Area Satisfied: *C4 - Upper Division Arts or Humanities*

HIST 388 - US and California Environmental History

Units: 3 ; G.E./G.R. Area: C4

An introduction to US Environmental History, with special emphasis on California topics. Focus is on

the evolution of human cultural relationships with the natural environment, and with understanding sustainability as a historical evolving notion.

Prerequisites: Completion of GE areas A1, A2, A3 and B4.

Equivalent Quarter Course: HIST 3505.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

G.E./G.R. Area Satisfied: C4 - Upper Division Arts or Humanities

HIST 392 - Migration and Modernization in 20th Century Mexico

Units: 3

Migration, urbanization and cultural change in modern Mexico. Covers a variety of historical perspectives on Mexico in the 19th and 20th centuries, especially those offered by social historians, cultural historians, environmental historians, and historians studying gender.

Equivalent Quarter Course: HIST 3622.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

History: Skills Courses

HIST 201 - Introduction to History

Units: 4

Introduction to History as a field of study; evaluate competing historical truths, conduct evidence analysis, develop viable research questions, understand different career paths in history. Serves as an introduction to the major, with advising and creation of a digital portfolio.

Equivalent Quarter Course: HIST 2010.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

HIST 301 - Historical Writing

Units: 4 ; G.E./G.R. Area: UWSR

Seminar on writing and revision of reviews, essays, and research papers through study of selected historical topics. Emphasis on form, argument, organization, source citation, and oral presentation.

Prerequisites: HIST 201; and Junior standing or above; and either CR (credit) in ENGL 300 or ENGL 301 and a score of 7 on the first-tier portfolio; or score of 7 or better on the Writing Skills test; or satisfaction of the graduation writing assessment requirement (GWAR) at any CSU campus including the UWSR at Cal State East Bay. Credit unavailable through challenge.

Equivalent Quarter Course: HIST 3010.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

G.E./G.R. Area Satisfied: *University Writing Skills Requirement*

HIST 398 - Internship

Units: 1-3

Introduction to the internship experience; integration of the academic program with career aspirations; emphasis on internship readiness and preparation for professional success.

Prerequisites: Department consent and minimum 2.0 GPA.

Equivalent Quarter Course: HIST 3898.

Repeatability: May be repeated with department consent for a maximum of 3 units.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

HIST 400 - Historiography

Units: 4

Development of historical writing from antiquity to present. Emphasis on Herodotus, Thucydides, St. Augustine, Vico, Hegel, Marx, Von Ranke and his successors, relativists, and postmodernists.

Prerequisites: HIST 201 and HIST 301.

Equivalent Quarter Course: HIST 4030.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

HIST 405 - History Lab

Units: 1

Intense activity section required for Majors and Minors in History (although open to all students). In depth work on research and writing skills, and advanced work in the application of history.

Prerequisites: HIST 201.

Repeatability: May be repeated for credit for a maximum of 6 units when content varies.

Possible Instructional Methods: *Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F or CR/NC (student choice).

HIST 409 - History Portfolio

Units: 1

Completion of digital portfolio of student work for graduation.

Prerequisites: HIST 201 and HIST 301.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

HIST 499 - Thesis Capstone

Units: 4

Seminar in advanced historical research through completion of original paper based on primary sources. Research in Bay Area libraries and on the Internet. Focus on Bay Area, California, and Western history. Self- and group-critiques of works-in-progress. Oral presentation of conclusions.

Prerequisites: HIST 201 and HIST 301.

Equivalent Quarter Course: HIST 4031.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

History: Additional Courses

HIST 120 - Self and Story in World History

Units: 3 ; G.E./G.R. Area: D1-3

Exploration of students' personal and family connections to an event in world history. Students develop a historical question, gather and evaluate primary and secondary historical sources (images and print), and produce a digital project on their findings.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

G.E./G.R. Area Satisfied: *D1-3 - Lower Division Social Sciences*

HIST 140 - Humanity, Science and Nature in History

Units: 3 ; G.E./G.R. Area: C2

Attitudes toward humanity's place in the natural world as revealed in historical documents from Classical times to the present. The rise of science and the Romantic reaction. The development of modern environmental concerns in historical context.

Equivalent Quarter Course: HIST 2040.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

G.E./G.R. Area Satisfied: *C2 - Lower Division Humanities*

HIST 410 - Internship in History

Units: 3

Independent work and/or project completed for outside organization or in some cases, a university project. Must utilize skills as a student of History. Requires permission of Public History Coordinator.

Prerequisites: Department consent.

Credit Restrictions: Open to MS and BS History majors or Public History Certificate students only.

Equivalent Quarter Course: HIST 4010.

Possible Instructional Methods: *Entirely On-ground.*

Grading: CR/NC grading only.

HIST 477 - History and Trends in Nursing

Units: 3 ; G.E./G.R. Area: C4

History of nursing in the US, including structure of the health care delivery system, and how development of nursing profession illuminates issues of class, race and gender in America. Special emphasis on tying historical scholarship to present-day nursing issues.

Prerequisites: Completion of GE areas A1, A2, A3 and B4.

Equivalent Quarter Course: HIST 4710.

Possible Instructional Methods: *Entirely On-ground, Entirely On-line, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F or CR/NC (student choice).

G.E./G.R. Area Satisfied: *C4 - Upper Division Arts or Humanities*

HIST 490 - Independent Study

Units: 3-4

By permission of the instructor, students may register for additional and/or in-depth study on a particular topic.

Prerequisites: Department consent and minimum 2.0 GPA.

Credit Restrictions: For declared History majors only.

Equivalent Quarter Course: HIST 4900.

Repeatability: May be repeated for credit for a maximum of 6 units when content varies

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

HIST 497 - Issues in History

Units: 3

Readings, discussion, and research on contemporary and/or significant issues in history.

Equivalent Quarter Course: HIST 3999.

Repeatability: May be repeated for credit when content varies, for a maximum of 6 units.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

Hospitality and Tourism

HOS 100 - Professional Preparation

Units: 2

Preparation for Hospitality, Recreation, and Recreation Therapy majors. Class and career planning for HRT majors. Basic business and professional preparation include basic computer skills, APA style writing, and professional networking. Introduction to Community Engagement.

Equivalent Quarter Course: REC 4100.

Possible Instructional Methods: *Entirely On-ground, Entirely On-line, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F or CR/NC (student choice).

HOS 200 - Lodging Management

Units: 3

Examination of the physical aspects of hotel and other lodging operations, including development, classification, organization, management concepts, career opportunities, technology, and social media in hotel and lodging administration.

Strongly Recommended Preparation: HOS 100 and REC 100.

Equivalent Quarter Course: HOS 4510.

Possible Instructional Methods: *Entirely On-ground, Entirely On-line, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F or CR/NC (student choice).

HOS 205 - Tourism Management

Units: 3 ; G.E./G.R. Area: D1-3

Introduction to tourism as a system with various sectors and functions. Focus on transportation, attractions, information, promotion, facilities, services, marketing, human resources, finance, environmental sciences, and other topics. Emphasis on government relations and destination marketing.

Strongly Recommended Preparation: HOS 100 and REC 100.

Equivalent Quarter Course: HOS 4570.

Possible Instructional Methods: *Entirely On-ground, Entirely On-line, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F or CR/NC (student choice).

G.E./G.R. Area Satisfied: *D1-3 - Lower Division Social Sciences*

HOS 210 - Meetings, Conventions, & Special Events

Units: 3

Managing and servicing meetings, conventions and special events. Topics include development of marketing plans, organizing the event, developing contracts, staffing, managing food and beverage, and billing.

Strongly Recommended Preparation: HOS 100 and REC 100.

Equivalent Quarter Course: HOS 4530.

Possible Instructional Methods: *Entirely On-ground, Entirely On-line, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F or CR/NC (student choice).

HOS 215 - Food and Beverage Management

Units: 3

Exploration of food and beverage management and career opportunities in the industry. Calculating and managing food, beverage, and labor costs. Completion of the ServSafe certification.

Strongly Recommended Preparation: HOS 100 and REC 100.

Equivalent Quarter Course: HOS 4560.

Possible Instructional Methods: *Entirely On-ground, Entirely On-line, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F grading only.

HOS 225 - Technology in Hospitality and Tourism

Units: 3

Use of technology as a tool in the hospitality industry including hotel operations software. Additionally, platforms for managing social media and data analysis will be presented.

Strongly Recommended Preparation: HOS 100 and REC 100.

Equivalent Quarter Course: REC 2050.

Possible Instructional Methods: *Entirely On-ground, Entirely On-line, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F or CR/NC (student choice).

HOS 230 - Sustainable Global Tourism Development

Units: 3 ; G.E./G.R. Area: D1-3; Sustainability

Introduction and implications for management, marketing, and planning of sustainable global tourism. Topics include tourism development; advancement of sustainable development; socio-cultural, economic, and environmental and physical dimensions of sustainable tourism; impacts of tourism development; and facilities and retro-development.

Strongly Recommended Preparation: HOS 100, REC 100 and HOS 205.

Equivalent Quarter Course: HOS 4550.

Possible Instructional Methods: *Entirely On-ground, Entirely On-line, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F or CR/NC (student choice).

G.E./G.R. Area Satisfied: *D1-3 - Lower Division Social Sciences, Overlay - Sustainability*

HOS 235 - Introduction to Community Engagement

Units: 3 ; G.E./G.R. Area: E

An introduction to community engagement where students will apply concepts and knowledge of Hospitality, Recreation & Tourism programming to enhance the quality of life in local communities through service.

Equivalent Quarter Course: REC 2500.

Repeatability: May be repeated for credit for a maximum of 6 units.

Possible Instructional Methods: *Entirely On-ground, Entirely On-line, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F or CR/NC (student choice).

G.E./G.R. Area Satisfied: *E - Lifelong Learning and Self-Development*

HOS 297 - Food & Culture

Units: 3 ; G.E./G.R. Area: D1-3; Social Justice

Introduction to what and how people eat, including how geography and history have shaped the food patterns and cultures throughout the world. Examination of food and food practices, traditions in different countries, religions, and cultures.

Possible Instructional Methods: *Entirely On-ground, Entirely On-line, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F or CR/NC (student choice).

G.E./G.R. Area Satisfied: *D1-3 - Lower Division Social Sciences, Overlay - Social Justice*

HOS 298 - Customer Service for Professions

Units: 3 ; G.E./G.R. Area: D1-3

Customer service competencies, engaging customers, communication, technologies, customer feedback and recovery, exceeding expectations and service improvement. Developing a customer-service improvement plan.

Prerequisites: HOS 100 and REC 100.

Possible Instructional Methods: *Entirely On-ground, Entirely On-line, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F or CR/NC (student choice).

G.E./G.R. Area Satisfied: *D1-3 - Lower Division Social Sciences*

HOS 299 - Professionalism & Etiquette

Units: 3 ; G.E./G.R. Area: E; Diversity

Professional preparation, including professionalism and etiquette. Applying proper use of both in appropriate situations. Emphasis on developing a personal and professional brand.

Possible Instructional Methods: *Entirely On-ground, Entirely On-line, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F or CR/NC (student choice).

G.E./G.R. Area Satisfied: *E - Lifelong Learning and Self-Development, Overlay - Diversity*

HOS 300 - Marketing in Hospitality, Recreation, Recreation Therapy, and Tourism

Units: 3

Marketing principles in the fields of hospitality, recreation, recreation therapy and tourism management. Emphasis on the interaction of marketing activities and the development of marketing strategies, including the use of social media and destination marketing.

Strongly Recommended Preparation: HOS 100 and REC 100.

Equivalent Quarter Course: HOS 4520.

Possible Instructional Methods: *Entirely On-ground, Entirely On-line, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F grading only.

HOS 310 - Design & Management of Special Events in Hospitality and Tourism

Units: 3

Planning, designing, servicing and managing special events. A significant portion of the course will be dedicated to planning and executing a special event and event volunteering. Completion of Cvent certification. *Lecture Units: 2; Activity Units: 1*

Strongly Recommended Preparation: HOS 100, HOS 210 and REC 100.

Equivalent Quarter Course: REC 4501 and HOS 4502.

Possible Instructional Methods: *Entirely On-ground, Entirely On-line, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F or CR/NC (student choice).

HOS 315 - Wedding Planning

Units: 3

All aspects of planning a wedding, including budgets, timelines, food and beverage, attire, ceremony, floral decor, stationery, photography, entertainment, rentals, layouts, transportation, and favors. Development of a detailed wedding plan.

Strongly Recommended Preparation: HOS 100, HOS 210 and REC 100.

Possible Instructional Methods: *Entirely On-ground, Entirely On-line, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F or CR/NC (student choice).

HOS 320 - Event Leadership

Units: 3

Leadership skills and abilities required to be successful event professional. Responsibility of event leaders

to address the quality of events, ethics, risk assessment, risk analysis and environmental issues.

Strongly Recommended Preparation: REC 100, HOS 100, HOS 210 and HOS 310

Possible Instructional Methods: *Entirely On-ground, Entirely On-line, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F or CR/NC (student choice).

HOS 335 - Introduction to Wine, Beer and Spirits

Units: 3

The history, science, sensory, economic, and societal aspects of alcoholic beverages. Historical and applied knowledge of preparation of each beverage type, including selection, pairing beverages with foods, cost controls and proper service.

Strongly Recommended Preparation: HOS 100 and REC 100.

Possible Instructional Methods: *Entirely On-ground, Entirely On-line, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F or CR/NC (student choice).

HOS 340 - Menu Planning, Cost Control, and Purchasing

Units: 3

The essential relationship between the management functions of menu planning and purchasing. The menu as the foundation of any food service establishment.

Strongly Recommended Preparation: HOS 100, HOS 215 and REC 100.

Possible Instructional Methods: *Entirely On-ground, Entirely On-line, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F or CR/NC (student choice).

HOS 350 - Resort and Club Management

Units: 3

Description and evaluation of guest amenities and recreational features of resorts and clubs. Current trends and operational issues, including membership, financial and profitability factors.

Strongly Recommended Preparation: REC 100, HOS 100, HOS 200 and HOS 205.

Possible Instructional Methods: *Entirely On-ground, Entirely On-line, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F grading only.

HOS 355 - Advanced Lodging Management

Units: 3

Simulated management of a full-service hotel and other lodging facilities, including revenue management, group sales, marketing, public relations, and customer service.

Strongly Recommended Preparation: HOS 100, REC 100 and HOS 200.

Possible Instructional Methods: *Entirely On-ground, Entirely On-line.*

Grading: A-F grading only.

HOS 360 - Lodging Alternatives

Units: 3

Development and management of alternative forms of lodging available to customers, including timeshares, condotels, hostels, glamping, and adventure travel/lodging

Strongly Recommended Preparation: All of: HOS 100, HOS 200, HOS 205, REC 100.

Possible Instructional Methods: *Entirely On-ground, Entirely On-line, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F grading only.

HOS 400 - Introduction to Finance in Hospitality, Recreation, Recreation Therapy, and Tourism

Units: 3

Financial aspects of the hospitality, recreation and tourism industries, including comprehension of financial statements, preparing budgets, forecasting costs, and managing revenues.

Strongly Recommended Preparation: HOS 100 and REC 100.

Prerequisites: B.S. Hospitality and Tourism major.

Possible Instructional Methods: *Entirely On-ground, Entirely On-line, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F or CR/NC (student choice).

HOS 410 - Revenue Management in Hospitality and Tourism

Units: 3

Revenue management principles and applications in the Hospitality and Tourism industries. Revenue generating strategies, cost analysis, and reading financial reports, including Profit and Loss and industry reports.

Strongly Recommended Preparation: HOS 100, HOS 225 and REC 100.

Equivalent Quarter Course: HOS 4540.

Possible Instructional Methods: *Entirely On-ground, Entirely On-line, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F or CR/NC (student choice).

HOS 435 - Advanced Community Engagement

Units: 3 ; G.E./G.R. Area: E

This course combines academic coursework with relevant and impactful service to the community. The students will apply what they learned in the classroom to the community, conversely, student activities in the community are integrated into the classroom to enrich learning.

Equivalent Quarter Course: REC 3010.

Repeatability: May be repeated for credit for a maximum of 6 units.

Possible Instructional Methods: *Entirely On-ground, Entirely On-line, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F or CR/NC (student choice).

G.E./G.R. Area Satisfied: *E - Lifelong Learning and Self-Development*

HOS 450 - Data-Driven Decision Making in Hospitality, Recreation, Recreation Therapy, and Tourism

Units: 3

Using data to make informed management decisions. Conduct a literature review, collect and analyze data, and create written and oral reports using both quantitative and qualitative data. Explore current software, such as Microsoft Excel, Survey Monkey, and Google Forms.

Strongly Recommended Preparation: HOS 100 and REC 100.

Equivalent Quarter Course: REC 3701.

Possible Instructional Methods: *Entirely On-ground, Entirely On-line, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F or CR/NC (student choice).

HOS 475 - Internship Placement

Units: 1

Develop a career portfolio, including resume, cover letter, interview preparation, and personal branding information. Identify an internship site to meet all hospitality criteria along with development of internship goals and objectives. Taken one semester prior to Internship. 1000 pre-internship hours required.

Strongly Recommended Preparation: Completion of most core and elective classes.

Prerequisites: B.S. Hospitality and Tourism major.

Equivalent Quarter Course: HOS 4901.

Possible Instructional Methods: *Entirely On-ground, Entirely On-line, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F or CR/NC (student choice).

HOS 490 - Independent Study

Units: 1-3

Undergraduate students who have at least a 2.0 (C) grade point average and graduate students with at least

a 3.0 (B) grade point average in all courses in the field or department in which the Independent Study is to be taken.

Strongly Recommended Preparation: REC 100 and HOS 100.

Prerequisites: Department consent, minimum 2.0 GPA.

Equivalent Quarter Course: REC 4900.

Possible Instructional Methods: *Entirely On-ground, Entirely On-line, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F or CR/NC (student choice).

HOS 497 - Issues in Hospitality & Tourism

Units: 1-3

Readings, discussion, and research on contemporary and/or significant issues in Hospitality and Tourism.

Strongly Recommended Preparation: REC 100, HOS 100 and HOS 210.

Prerequisites: Department consent.

Equivalent Quarter Course: REC 3999.

Possible Instructional Methods: *Entirely On-ground, Entirely On-line, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F or CR/NC (student choice).

HOS 498 - Internship

Units: 3-6

400-hour hospitality/tourism internship taken after completing major classes and 1,000 hours of experience in the field. Must meet university G.P.A. requirements prior to enrollment. Developing a capstone project that demonstrates knowledge learned throughout the program.

Prerequisites: B.S. Hospitality and Tourism major.

Equivalent Quarter Course: HOS 4912.

Repeatability: May be repeated for credit for a maximum of 6 units.

Possible Instructional Methods: *Entirely On-ground, Entirely On-line, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F or CR/NC (student choice).

Human Development

HDEV 200 - Human Development in Contemporary Society

Units: 3

Introduction to the study of social and environmental problems influencing human development.

Equivalent Quarter Course: HDEV 2001.

Possible Instructional Methods: *Entirely On-ground, Entirely On-line, Hybrid (every section of this course may be*

taught both online and on-ground).

Grading: A-F or CR/NC (student choice).

HDEV 300 - Introduction to Human Development for Human Development Majors

Units: 1

Introduction to the Human Development program for Human Development majors, regarding program requirements, degree roadmaps, course enrollment management and planning, online courses orientation, navigating the CSUEB student administration system, and student services and resources.

Prerequisites: Junior, senior or post-baccalaureate standing.

Possible Instructional Methods: *Entirely On-ground, Entirely On-line, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F or CR/NC (student choice).

HDEV 301 - Theories of Human Development

Units: 4

Critical review of major theoretical approaches to human development from an interdisciplinary perspective.

Prerequisites: Junior, senior or post-baccalaureate standing.

Equivalent Quarter Course: HDEV 3201.

Possible Instructional Methods: *Entirely On-ground, Entirely On-line, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F or CR/NC (student choice).

HDEV 302 - Research Methods in Human Development

Units: 4

Review major research designs and techniques for practical interdisciplinary empirical inquiry into human development. Methodological approaches include experiments, surveys, case study, ethnography, interviews, content analysis and historical methods.

Prerequisites: Junior, senior or post-baccalaureate standing.

Equivalent Quarter Course: HDEV 3202.

Possible Instructional Methods: *Entirely On-ground, Entirely On-line, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F or CR/NC (student choice).

HDEV 311 - Infant and Child Development

Units: 4

Development from conception to pre-adolescence viewed from various perspectives: biological, psychoanalytic, cognitive-structural, stimulus response, humanistic. Prenatal care and counseling,

attachment-separation, parenting and institutional care.

Prerequisites: Junior, senior or post-baccalaureate standing.

Equivalent Quarter Course: HDEV 3301.

Possible Instructional Methods: *Entirely On-ground, Entirely On-line, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F or CR/NC (student choice).

HDEV 312 - Adolescence and Emerging Adulthood

Units: 4

Developmental issues arising during adolescence and emerging adulthood - including career choice, intimacy, biological changes, and attainment of cognitive, social, biological, and emotional maturity.

Prerequisites: Junior, senior or post-baccalaureate standing.

Equivalent Quarter Course: HDEV 3302.

Possible Instructional Methods: *Entirely On-ground, Entirely On-line, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F or CR/NC (student choice).

HDEV 321 - Gender, Race & Class in Human Development

Units: 4

Interdisciplinary examination of the effects of race, class, and gender constructions on individuals' lifespan development. Theoretical and empirical information related to social policies, interpersonal relationships, and individual experiences.

Prerequisites: Junior, senior or post-baccalaureate standing.

Equivalent Quarter Course: HDEV 3304.

Possible Instructional Methods: *Entirely On-ground, Entirely On-line, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F or CR/NC (student choice).

HDEV 322 - Adult Development and Aging

Units: 4

Addresses human development from entry to adulthood through senescence and the final stages of adult life. Fosters understanding of concepts, theories, research findings and methods related to adult development and aging.

Prerequisites: Junior, senior or post-baccalaureate standing.

Equivalent Quarter Course: HDEV 3303.

Possible Instructional Methods: *Entirely On-ground, Entirely On-line, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F or CR/NC (student choice).

HDEV 380 - Lifespan Human Development

Units: 3 ; G.E./G.R. Area: D4

Interdisciplinary methodologies (integrating sociocultural and biological perspectives) are examined and applied to understanding the human lifespan in interpersonal contexts.

Prerequisites: Junior, senior or post-baccalaureate standing, and completion of GE Areas A1, A2, A3 and B4.

Equivalent Quarter Course: HDEV 3800.

Possible Instructional Methods: *Entirely On-ground, Entirely On-line, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F or CR/NC (student choice).

G.E./G.R. Area Satisfied: *D4 - Upper Division Social Sciences*

HDEV 381 - Interdisciplinary Perspectives on Lifespan Human Development

Units: 3

Interdisciplinary perspectives on lifespan human development from infancy to aging, examining physical, biological, cognitive, linguistic, emotional, and social development with reference to social, cultural, and individual contexts.

Prerequisites: Junior, senior or post-baccalaureate standing.

Possible Instructional Methods: *Entirely On-ground, Entirely On-line, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F grading only.

HDEV 398 - Internship

Units: 1-3

Introduction to the internship experience; integration of the academic program with career aspirations; emphasis on internship readiness and preparation for professional success.

Prerequisites: Department consent and minimum 2.0 GPA.

Equivalent Quarter Course: HDEV 3898.

Repeatability: May be repeated with department consent for a maximum of 6 units.

Possible Instructional Methods: *Entirely On-ground.*

Grading: CR/NC grading only.

HDEV 400 - Futures and Careers for Human Development Majors

Units: 1

Reflecting on students' academic accomplishment through the Human Development program, and sharing and exploring inspirations and aspirations for future education and career pathways and goals.

Prerequisites: HDEV 300.

Co-requisites: HDEV 499.

Possible Instructional Methods: *Entirely On-ground, Entirely On-line, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F or CR/NC (student choice).

HDEV 401 - Applying Theories and Methods in Human Development

Units: 4

Application of theories and methods learned in HDEV 301 and HDEV 302 to people, organizations, and/or settings in the community. Includes a service learning component.

Prerequisites: HDEV 301 and HDEV 302.

Equivalent Quarter Course: HDEV 3203.

Possible Instructional Methods: *Entirely On-ground, Entirely On-line, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F or CR/NC (student choice).

HDEV 411 - Early Childhood Cognitive Development: Theory and Research

Units: 4

Theories, methods, and research findings in early childhood cognitive development from the prenatal stage to age five. Biological and genetic foundations of cognition, perception, mental representation, problem solving, reasoning, memory, metacognition, and social cognition.

Prerequisites: Junior, senior or post-baccalaureate standing.

Equivalent Quarter Course: HDEV 4010.

Possible Instructional Methods: *Entirely On-ground, Entirely On-line, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F or CR/NC (student choice).

HDEV 412 - Early Childhood Social Development: Theory & Research

Units: 4

Theories, methods, and research findings in early childhood social-emotional development from the neonatal stage to age five. Topics include emotion and temperament, attachment, identity, achievement, gender roles, pro- and anti-social behavior, morality, peers, and the family.

Prerequisites: Junior, senior or post-baccalaureate standing.

Equivalent Quarter Course: HDEV 4030.

Possible Instructional Methods: *Entirely On-ground, Entirely On-line, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F or CR/NC (student choice).

HDEV 413 - Children in Families and Communities

Units: 4

Contemporary families presented from a socio-psychological viewpoint with a focus on sociology of the family, family policy, and the impact of stress on children. Topics include family formation and dissolution, interpersonal communication, personal awareness, and power.

Prerequisites: Junior, senior or post-baccalaureate standing.

Equivalent Quarter Course: HDEV 4150.

Possible Instructional Methods: *Entirely On-ground, Entirely On-line, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F or CR/NC (student choice).

HDEV 414 - Creative and Artistic Development in Early Childhood

Units: 4

Theories and research findings related to creative and artistic development during early childhood, from birth to age five. Observation, design, and implementation of activities in visual art, music, dance, or drama.

Prerequisites: Junior, senior or post-baccalaureate standing.

Equivalent Quarter Course: HDEV 4060.

Possible Instructional Methods: *Entirely On-ground, Entirely On-line, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F or CR/NC (student choice).

HDEV 419 - Contemporary Research Topics in Early Childhood

Units: 4

Readings, discussion, and research on selected topics in early childhood from a developmental perspective.

Prerequisites: Junior, senior or post-baccalaureate standing.

Possible Instructional Methods: *Entirely On-ground, Entirely On-line, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F or CR/NC (student choice).

HDEV 421 - Child Cognitive Development: Theory and Research

Units: 4

Theories, methods, and research findings in child cognitive development from the prenatal stage to age 12. Biological and genetic foundations of cognition, perception, mental representation, problem solving, reasoning, memory, metacognition, and social cognition.

Prerequisites: Junior, senior or post-baccalaureate standing.

Credit Restrictions: Not open to students with credit for HDEV 4510.

Equivalent Quarter Course: HDEV 4110.

Possible Instructional Methods: *Entirely On-ground, Entirely On-line, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F or CR/NC (student choice).

HDEV 422 - Social Development of Children: Theory and Research

Units: 4

Theories, methods, and research findings in childhood social-emotional development from birth to age 12. Emotion and temperament, attachment, identity, achievement, gender roles, pro- and anti-social behavior, morality, peers, and the family.

Prerequisites: Junior, senior or post-baccalaureate standing.

Equivalent Quarter Course: HDEV 4130.

Possible Instructional Methods: *Entirely On-ground, Entirely On-line, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F or CR/NC (student choice).

HDEV 423 - Child Language Development

Units: 4

Interdisciplinary study of the development of a first language and the biological, linguistic, cognitive, and social factors involved. Development of prelinguistic skills, semantics, syntax, discourse skills, and phonology. Language acquisition theories and hypotheses.

Prerequisites: Junior, senior or post-baccalaureate standing.

Credit Restrictions: Not open to students with credit for HDEV 4520

Equivalent Quarter Course: HDEV 4120.

Possible Instructional Methods: *Entirely On-ground, Entirely On-line, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F or CR/NC (student choice).

HDEV 424 - Global Perspectives on Childhood

Units: 4

Cross-cultural and socio-historical perspectives on children, childhood, and child development.

Prerequisites: Junior, senior or post-baccalaureate standing.

Equivalent Quarter Course: HDEV 4140.

Possible Instructional Methods: *Entirely On-ground, Entirely On-line, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F or CR/NC (student choice).

HDEV 429 - Contemporary Topics on Children and Youth

Units: 4

Reading, discussion and research on selected topics on children and youth from a development

perspective.

Prerequisites: Junior, senior or post-baccalaureate standing.

Possible Instructional Methods: *Entirely On-ground, Entirely On-line, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F or CR/NC (student choice).

HDEV 431 - Prevention and Intervention in Adolescent Development

Units: 4

Research and theory-based approaches to developing and evaluating prevention and intervention programs for adolescents at risk.

Prerequisites: Junior, senior or post-baccalaureate standing.

Equivalent Quarter Course: HDEV 4230.

Possible Instructional Methods: *Entirely On-ground, Entirely On-line, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F or CR/NC (student choice).

HDEV 432 - Social Dimensions of Conflict in Adolescent and Adult Development

Units: 4

Studies the impact and consequences of conflict on human development, ranging from wars and military actions to prisons and domestic violence. Focuses on contemporary social conflict using an interdisciplinary social science perspective.

Prerequisites: Junior, senior or post-baccalaureate standing.

Equivalent Quarter Course: HDEV 4450.

Possible Instructional Methods: *Entirely On-ground, Entirely On-line, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F or CR/NC (student choice).

HDEV 433 - Technologies, Media, and Adolescence

Units: 4

Examination of contemporary research, trends, and issues as they relate to adolescents' use of media and technologies.

Prerequisites: Junior, senior or post-baccalaureate standing.

Possible Instructional Methods: *Entirely On-ground, Entirely On-line, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F or CR/NC (student choice).

HDEV 439 - Contemporary Research Topics in Adolescent Development

Units: 4

Examination of contemporary theories, research, issues and trends in adolescent development.

Prerequisites: Junior, senior or post-baccalaureate standing.

Equivalent Quarter Course: HDEV 4220.

Possible Instructional Methods: *Entirely On-ground, Entirely On-line, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F or CR/NC (student choice).

HDEV 441 - Human Development and Work

Units: 4

Explores relationships between work, workplace and human development, focusing on how economic, political and technological forces have transformed impact of work for both men and women.

Prerequisites: Junior, senior or post-baccalaureate standing.

Equivalent Quarter Course: HDEV 4310.

Possible Instructional Methods: *Entirely On-ground, Entirely On-line, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F or CR/NC (student choice).

HDEV 442 - Health and Aging

Units: 4

This course presents an interdisciplinary approach to understand the factors that contribute to health outcomes in older adulthood. Focus ranges from global public health to personal narrative.

Prerequisites: Junior, senior or post-baccalaureate standing.

Equivalent Quarter Course: HDEV 4362 or HDEV 4363.

Possible Instructional Methods: *Entirely On-ground, Entirely On-line, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F or CR/NC (student choice).

HDEV 449 - Contemporary Research Topics in Adulthood and Aging

Units: 4

Examination of contemporary theories, research, issues and trends in adulthood and aging.

Prerequisites: Junior, senior or post-baccalaureate standing.

Possible Instructional Methods: *Entirely On-ground, Entirely On-line, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F or CR/NC (student choice).

HDEV 451 - Midlife Transitions

Units: 4

Analysis of the midlife crisis seen through a life cycle perspective as only one of the predictable crises of adult life experienced by both men and women in contemporary society. Addresses both dangers and opportunities of this life cycle passage.

Prerequisites: Junior, senior or post-baccalaureate standing.

Equivalent Quarter Course: Any one from: HDEV 4310, HDEV 4361, HDEV 4362, HDEV 4363.

Possible Instructional Methods: *Entirely On-ground, Entirely On-line, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F or CR/NC (student choice).

HDEV 452 - Intimate Relationships Across the Lifespan

Units: 4

Nature and structure of parent-child, friendship, and sexual love relations. Developmental changes during childhood, adolescence, adulthood, and old age.

Prerequisites: Junior, senior or post-baccalaureate standing.

Equivalent Quarter Course: HDEV 4430.

Possible Instructional Methods: *Entirely On-ground, Entirely On-line, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F or CR/NC (student choice).

HDEV 453 - Sexual Orientations in Human Development

Units: 4

Theory and research related to sexual identity development; examination of sexuality stereotypes and myths. Exploration of gender identity, sexual orientation, sexuality, love relationships, and examination of relationship between sexual orientations and friendship networks, families, and community relations.

Prerequisites: Junior, senior or post-baccalaureate standing.

Equivalent Quarter Course: HDEV 4440.

Possible Instructional Methods: *Entirely On-ground, Entirely On-line, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F or CR/NC (student choice).

HDEV 459 - Contemporary Research Topics in Women's Development

Units: 4

Examination of contemporary theories, research, issues and trends in women's development.

Prerequisites: Junior, senior or post-baccalaureate standing.

Possible Instructional Methods: *Entirely On-ground, Entirely On-line, Hybrid (every section of this course may be*

taught both online and on-ground).

Grading: A-F or CR/NC (student choice).

HDEV 490 - Independent Study

Units: 1-4

Independent study under the supervision a department faculty member.

Prerequisites: Department consent and minimum 2.0 GPA.

Credit Restrictions: No more than 12 units of independent study may be applied in the major department and 8 units in other departments to a baccalaureate degree.

Equivalent Quarter Course: HDEV 4900.

Repeatability: May be repeated for credit, with department consent, for a total of 12 units.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

HDEV 497 - Issues in Human Development

Units: 3

Readings, discussion, and research on contemporary and/or significant issues in human development

Equivalent Quarter Course: HDEV 3999.

Repeatability: May be repeated for credit when content varies, for a maximum of 6 units.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

HDEV 499 - Senior Research Seminar

Units: 4

The capstone experience in the major. Design and completion of independent research project on a topic in the field of Human Development.

Prerequisites: HDEV 401.

Co-requisites: HDEV 400.

Equivalent Quarter Course: HDEV 4811 or HDEV 4812.

Possible Instructional Methods: *Entirely On-ground, Entirely On-line, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F or CR/NC (student choice).

Industrial Engineering

INDE 330 - Engineering Statistics and Probability

Units: 3

Analyzing data to solve non-deterministic engineering problems including specialized engineering

software applications. Topics include analysis of service and production systems including error and variability analysis and optimal sampling schemes for decision-making in logistics and manufacturing.

Prerequisites: MATH 130.

Equivalent Quarter Course: INDE 3601 or STAT 3601.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

INDE 340 - Design of Engineering Experiments

Units: 3

An application-oriented course emphasizing concepts of point estimation, regression models, factorial designs, block designs, fractional designs and response surface concepts applied to solving engineering problems. Identification of factorial components and equations to evaluate alternatives with application software.

Prerequisites: INDE 330 or STAT 316.

Equivalent Quarter Course: INDE 3602 or STAT 3602.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

INDE 360 - Operations Research

Units: 4

Theory and application of deterministic and probabilistic optimization techniques. Topics selected from project management, networks, linear programming, non-linear programming, game theory and dynamic programming. Applications using specialized software.

Prerequisites: MATH 131.

Equivalent Quarter Course: INDE 3841.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

INDE 390 - Human Factors and Work Methods

Units: 4 ; G.E./G.R. Area: B6

Human Factors principles utilized for design of tools, jobs, environments and work methods. Human dimensions, capabilities and limitations, including anthropometric, perceptive and cognitive, inform human-centered designs. Case studies illustrate good/poor designs. Principles applied in course projects, exercises and simulations.

Prerequisites: INDE 330 or STAT 100; and completion of GE A1, A2, A3, and B4.

Equivalent Quarter Course: INDE 3020 and INDE 3190.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

G.E./G.R. Area Satisfied: B6 - Upper Division Science Inquiry and Quantitative Reasoning
Cross-listed: PSYC 390

INDE 410 - Facility Planning, Design and Material Handling

Units: 3

Design, improve, and analyze industrial facilities including production, service, and material handling processes, material flow analysis, line balancing, systematic layout planning, design of warehouse facilities, and facilities location.

Prerequisites: ENGR 210.

Equivalent Quarter Course: INDE 4430.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

INDE 420 - Discrete Event Simulation

Units: 3

Analyze, improve and design stochastic processes of manufacturing and service systems by using computer simulation techniques. Identify, define and solve stochastic process problems using queuing theory. Use of computer simulations to measure and improve system performance, and optimize system designs. *Lecture Units: 2; Activity Units: 1*

Prerequisites: ENGR 215, and INDE 330 or STAT 316.

Co-requisites: INDE 360.

Equivalent Quarter Course: INDE 4200.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

INDE 430 - Design of Work Systems

Units: 4

Techniques to maximize labor productivity, employee well-being, and organizational performance. Topics include scientific management, human relations, worker motivation, incentive systems, worker autonomy, management of teams including total productive maintenance and socio-technical systems, integration of quality and sustainability in modern organizations.

Prerequisites: INDE 390.

Equivalent Quarter Course: INDE 4280.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

INDE 440 - Sustainable Production and Supply Chain Systems

Units: 4

Use of application software and mathematical modeling to optimize economics, quality and sustainability of supply chain operations.

Prerequisites: INDE 360, and either INDE 330 or STAT 316.

Equivalent Quarter Course: INDE 4100.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

INDE 450 - Systems Quality & Reliability

Units: 4

Fundamental quality control and reliability techniques and applications for analyzing and improving manufacturing and service processes, and designing mechanical/electrical devices.

Prerequisites: ENGR 210, and either INDE 330 or STAT 316.

Equivalent Quarter Course: INDE 4350.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

INDE 460 - Service and Manufacturing Systems Modeling

Units: 4

Integration, problem identification, and the application of problem resolution techniques in manufacturing and service domains. Systems approach to modeling, and resolutions derived by optimization techniques. Supply chain modeling methods, logistics support analysis, procurement, and outsourcing strategies.

Prerequisites: INDE 360.

Equivalent Quarter Course: INDE 4400.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

INDE 490 - Independent Study

Units: 1-3

Selected research topics agreed on between the student and the faculty supervising the course. A plan of work completion must be approved prior to proceeding with the project. A final presentation is required.

Prerequisites: Department consent and minimum 2.0 GPA.

Equivalent Quarter Course: INDE 4900.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

INDE 492 - Senior Design

Units: 4

Utilization of industrial engineering skills, standards and design concepts to complete an engineering project including: Technical report writing, review and revision; formal presentations with feedback; team building exercises and project collaboration; Engineering ethics through case studies and discussions.

Co-requisites: Completion or enrollment in any three courses from: INDE 410, INDE 420, INDE 440, INDE 450, INDE 460.

Equivalent Quarter Course: INDE 4620.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

INDE 497 - Issues in Industrial Engineering

Units: 3

Readings, discussion, and research on contemporary and/or significant issues in engineering.

Equivalent Quarter Course: INDE 3999.

Repeatability: May be repeated for credit when content varies, for a maximum of 6 units.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

INDE 498 - Internship

Units: 1-3

Formal work opportunities integrating the academic program with their career aspirations. Integral hands-on experience enhancing education and preparing for professional and personal success.

Prerequisites: Department consent, minimum 2.5 GPA., junior or senior standing.

Equivalent Quarter Course: INDE 3898.

Possible Instructional Methods: *Entirely On-ground.*

Grading: CR/NC grading only.

Information Literacy

LIBY 200 - Topics in Information Literacy

Units: 3 ; G.E./G.R. Area: E

Discussion on information literacy with rotating topics and disciplinary focus. Theories, methods, and perspectives on selected topics such as information ethics, social justice, data privacy, and information literacy as applied in the disciplines. Requires individual research.

Prerequisites: Sophomore or higher standing and completion of GE Area A2.

Equivalent Quarter Course: LIBY 1210 or LIBY 1551.

Possible Instructional Methods: *Entirely On-line, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F grading only.

G.E./G.R. Area Satisfied: *E - Lifelong Learning and Self-Development*

LIBY 210 - Introduction to Information Literacy Skills

Units: 1 ; G.E./G.R. Area: E

Introduction to basic information literacy skills to assist in research processes. Issues of finding appropriate information sources, critical evaluation, and information ethics will be covered.

Prerequisites: Completion of GE area A2 and Sophomore, Junior or Senior standing.

Credit Restrictions: Not open to students with credit for LIBY 220.

Equivalent Quarter Course: LIBY 1210.

Possible Instructional Methods: *Entirely On-line, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F grading only.

G.E./G.R. Area Satisfied: *E - Lifelong Learning and Self-Development*

LIBY 220 - Information Literacy Skills

Units: 1 ; G.E./G.R. Area: E

Information literacy skills with an emphasis on research in academic context. Issues and skills covered include: search strategies, information evaluation, information ethics, and use of information in research papers and presentations.

Prerequisites: Sophomore or higher standing and completion of GE Area A2.

Credit Restrictions: Not open to students with credit for LIBY 210.

Equivalent Quarter Course: LIBY 1210 or LIBY 1551.

Possible Instructional Methods: *Entirely On-line, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F grading only.

G.E./G.R. Area Satisfied: *E - Lifelong Learning and Self-Development*

Information Technology Management

ITM 330 - Business Applications Programming

Units: 3

Fundamental programming logic and use of basic programming structures to solve business problems. Design, code, test, and debug business programs based on business requirements using a selected programming language with emphasis on object-oriented programming techniques.

Strongly Recommended Preparation: Digital proficiency.

Prerequisites: BUS 110.

Possible Instructional Methods: *Entirely On-ground, Entirely On-line.*

Grading: A-F grading only.

ITM 331 - Database Management Systems

Units: 3

Database concepts, design, systems, and administration. Topics include ER (entity relationship) modeling, Relational database, database design and development, SQL (structured query language), normalization of database tables, and database administration.

Prerequisites: BUS 340.

Equivalent Quarter Course: ITM 4271.

Possible Instructional Methods: *Entirely On-ground, Entirely On-line.*

Grading: A-F grading only.

ITM 332 - Business Data Communications

Units: 3

Terminology, techniques, and concepts of business data communications. Emphasis on both the technical aspects and related managerial issues. Topics include network technology, standards, protocols, security and design, network management and network applications.

Prerequisites: BUS 340.

Equivalent Quarter Course: ITM 4272.

Possible Instructional Methods: *Entirely On-ground, Entirely On-line.*

Grading: A-F grading only.

ITM 336 - Information Systems Development and Management

Units: 3

Developing information systems including systems planning, analysis, design, testing, implementation, and maintenance. Primary emphasis on learning and practicing techniques and processes used by system analysts at each phase within a system development lifecycle.

Prerequisites: BUS 340.

Equivalent Quarter Course: ITM 4277.

Possible Instructional Methods: *Entirely On-ground, Entirely On-line.*

Grading: A-F grading only.

ITM 338 - E-Business Technology and Management

Units: 3

Technological, conceptual and methodological aspects of e-commerce. Primary emphasis on developing skills in implementing business-oriented systems for e-commerce using information technologies. Topics include Internet, world wide web, databases, programming, security standards, web authorizing tools, integration with enterprise systems.

Prerequisites: BUS 340.

Equivalent Quarter Course: ITM 4278.

Possible Instructional Methods: *Entirely On-ground, Entirely On-line.*

Grading: A-F grading only.

ITM 398 - Internship

Units: 1-3

Introduction to the internship experience; integration of the academic program with career aspirations; emphasis on internship readiness and preparation for professional success.

Prerequisites: Department consent and minimum 2.0 GPA.

Credit Restrictions: No units may be applied to any CBE major or minor.

Equivalent Quarter Course: ITM 3898.

Repeatability: May be repeated with department consent for a maximum of 3 units.

Possible Instructional Methods: *Entirely On-ground.*

Grading: CR/NC grading only.

ITM 440 - Business Intelligence Systems

Units: 3

Advanced information technologies that extract non-trivial, actionable, and novel knowledge from data to achieve organizational strategic goals. Topics include multidimensional data modeling, online analytic processing, data warehouse, and data mining.

Prerequisites: ITM 330 and BUS 340.

Possible Instructional Methods: *Entirely On-ground, Entirely On-line.*

Grading: A-F grading only.

ITM 442 - Healthcare Information Systems

Units: 3

Information technology and its deployment to the modern healthcare delivery and management. Topics include electronic health records, imaging applications, eHealth and mHealth applications. Emphasis on develop, understand, manage and integrate healthcare information systems in diverse organizations.

Prerequisites: BUS 340.

Possible Instructional Methods: *Entirely On-ground, Entirely On-line.*

Grading: A-F grading only.

ITM 446 - Information Security

Units: 3

Principles and practices of computer system security including operating system security, network security, software security and web security. Topics include computer attacks, protection measures, security principles, security models, and cryptography.

Prerequisites: BUS 340.

Possible Instructional Methods: *Entirely On-ground, Entirely On-line.*

Grading: A-F grading only.

ITM 448 - Information Systems Analytics

Units: 3

Application of information systems to enhance data analysis and effective business problem solving.

Topics include data visualization, online analytical processing, data mining tools, big data technologies, and spreadsheet for data manipulation, etc.

Prerequisites: BUS 340.

Possible Instructional Methods: *Entirely On-ground, Entirely On-line.*

Grading: A-F grading only.

ITM 449 - Advanced Topics in Information Technology

Units: 3

Advanced topic(s) in information technology. For example, concerns to managers in data and information processing, impacts of emerging information technology on the firm, and global information systems.

Prerequisites: ITM 330 and BUS 340.

Possible Instructional Methods: *Entirely On-ground, Entirely On-line.*

Grading: A-F grading only.

ITM 490 - Independent Study

Units: 1-4

Independent study under the supervision a department faculty member.

Prerequisites: Department consent and minimum 2.0 GPA.

Credit Restrictions: No more than 12 units of independent study may be applied in the major department and 8 units in other departments to a baccalaureate degree.

Equivalent Quarter Course: ITM 4900.

Repeatability: May be repeated for credit, with department consent, for a total of 12 units.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

ITM 497 - Issues in Information Technology Management

Units: 3

Readings, discussion, and research on contemporary and/or significant issues in information technology management.

Equivalent Quarter Course: ITM 3999.

Repeatability: May be repeated for credit when content varies, for a maximum of 6 units.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

Information Technology Management: Graduate

ITM 690 - Independent Study

Units: 1-4

Independent study under the supervision of a member of the graduate faculty.

Prerequisites: Department consent and minimum 3.0 GPA.

Equivalent Quarter Course: ITM 6900.

Repeatability: May be repeated for credit, with department consent, for a total of 12 units.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

ITM 697 - Issues in Information Technology Management

Units: 3

Readings, discussion, and research on contemporary and/or significant issues in information technology management.

Equivalent Quarter Course: ITM 6999.

Repeatability: May be repeated for credit when content varies, for a maximum of 6 units.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

ITM 698 - Internship

Units: 1-3

Formal advanced work opportunities integrating the academic program with their career aspirations. Integral advanced hands-on experience enhancing education and preparing for professional and personal success.

Prerequisites: Department consent and minimum 3.0 GPA.

Credit Restrictions: No units may be applied to any CBE graduate degree.

Equivalent Quarter Course: ITM 6898.

Repeatability: May be repeated with department consent for a maximum of 3 units.

Possible Instructional Methods: *Entirely On-ground.*

Grading: CR/NC grading only.

International Studies

INTS 101 - Introduction to International Studies

Units: 3 ; G.E./G.R. Area: D1-3

Introduction to the interdisciplinary field of international studies. Examination of globalization, the interdependence of people, nations and institutions through the lenses of history, geography, politics, anthropology, and economics. Overview of major processes and outcomes of global interaction, cooperation and conflict.

Possible Instructional Methods: *Entirely On-ground, Entirely On-line, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F grading only.

G.E./G.R. Area Satisfied: *D1-3 - Lower Division Social Sciences*

INTS 398 - Internship

Units: 2-3

Supervised internship/volunteer work with a company, non-profit or government agency in which a substantial portion of the work experience is overseas or internationally related.

Strongly Recommended Preparation: INTS 101.

Prerequisites: Department consent.

Equivalent Quarter Course: INTS 4100.

Repeatability: May be repeated for credit for a maximum of 6 units.

Possible Instructional Methods: *Entirely On-ground.*

Grading: CR/NC grading only.

INTS 490 - Independent Study

Units: 1-3

Specific research project coursework approve by instructor.

Strongly Recommended Preparation: INTS 101.

Prerequisites: Department consent and minimum 2.0 GPA.

Credit Restrictions: No more than 12 units of independent study may be applied in the major department and 8 units in other departments to a baccalaureate degree.

Equivalent Quarter Course: INTS 4900.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

INTS 497 - Issues in International Studies

Units: 3

Readings, discussion, and research on contemporary and/or significant issues in international studies.

Equivalent Quarter Course: INTS 3999.

Repeatability: May be repeated for credit when content varies, for a maximum of 6 units.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

INTS 499 - Senior Seminar in International Studies

Units: 3

Advanced research, analysis and evaluation of global systems, processes and outcomes. Synthesis and application of knowledge and understanding of chosen major emphasis in the form of a capstone paper on a relevant contemporary issue.

Prerequisites: INTS 101.

Equivalent Quarter Course: INTS 4500.

Possible Instructional Methods: *Entirely On-ground, Entirely On-line, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F grading only.

Kinesiology

KIN 100 - Beginning Activities: Badminton

Units: 1 ; G.E./G.R. Area: E

Development of Badminton skills, tactics, game strategies, etiquette, rules and value to active living, life-long fitness, health, and wellness.

Equivalent Quarter Course: KIN 1000.

Repeatability: May be repeated for credit for a maximum of 2 units.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

G.E./G.R. Area Satisfied: *E - Lifelong Learning and Self-Development*

KIN 101 - Beginning Activities: Basketball

Units: 1 ; G.E./G.R. Area: E

Development of basketball skills, tactics, game strategies, etiquette, rules and value to active living, life-long fitness, health, and wellness.

Equivalent Quarter Course: KIN 1001.

Repeatability: May be repeated for credit for a maximum of 2 units.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

G.E./G.R. Area Satisfied: *E - Lifelong Learning and Self-Development*

KIN 107 - Beginning Activities: Swimming

Units: 1 ; G.E./G.R. Area: E

Development of swimming skills, tactics, race strategies, etiquette rules and value to active living, life-long fitness, health, and wellness.

Equivalent Quarter Course: KIN 1007.

Repeatability: May be repeated for credit for a maximum of 2 units.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

G.E./G.R. Area Satisfied: *E - Lifelong Learning and Self-Development*

KIN 109 - Beginning Activities: Volleyball

Units: 1 ; G.E./G.R. Area: E

Development of volleyball skills, tactics, game strategies, etiquette, rules and value to active living, life-long fitness, health, and wellness.

Equivalent Quarter Course: KIN 1009.

Repeatability: May be repeated for credit for a maximum of 2 units.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

G.E./G.R. Area Satisfied: *E - Lifelong Learning and Self-Development*

KIN 110 - Beginning Activities: Circuit Training

Units: 1 ; G.E./G.R. Area: E

Development of circuit training activities and skills, gym etiquette, rules and value to active living, life-long fitness, health, and wellness.

Equivalent Quarter Course: KIN 1011.

Repeatability: May be repeated for credit for a maximum of 2 units.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

G.E./G.R. Area Satisfied: *E - Lifelong Learning and Self-Development*

KIN 112 - Beginning Activities: Fitness Training

Units: 1 ; G.E./G.R. Area: E

Development of fitness training techniques, gym etiquette, rules, and value to active living, life-long fitness, health, and wellness.

Equivalent Quarter Course: KIN 1012.

Repeatability: May be repeated for credit for a maximum of 2 units.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

G.E./G.R. Area Satisfied: *E - Lifelong Learning and Self-Development*

KIN 113 - Beginning Activities: Judo

Units: 1 ; G.E./G.R. Area: E

Development of Judo skills, tactics, strategies, etiquette, rules and value to active living, life-long fitness, health, and wellness.

Equivalent Quarter Course: KIN 1013.

Repeatability: May be repeated for credit for a maximum of 2 units.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

G.E./G.R. Area Satisfied: *E - Lifelong Learning and Self-Development*

KIN 114 - Beginning Activities: Weight Training

Units: 1 ; G.E./G.R. Area: E

Development of Weight Training techniques, gym etiquette, rules and value to active living, life-long fitness, health, and wellness.

Equivalent Quarter Course: KIN 1010.

Repeatability: May be repeated for credit for a maximum of 2 units.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

G.E./G.R. Area Satisfied: *E - Lifelong Learning and Self-Development*

KIN 115 - Beginning Activities: Hapkido Self Defense

Units: 1 ; G.E./G.R. Area: E

Development of Hapkido Self Defense skills, tactics, strategies, etiquette, rules and value to active living, life-long fitness, health, and wellness.

Equivalent Quarter Course: KIN 1015.

Repeatability: May be repeated for credit for a maximum of 2 units.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

G.E./G.R. Area Satisfied: *E - Lifelong Learning and Self-Development*

KIN 116 - Beginning Activities: Taekwondo Karate

Units: 1 ; G.E./G.R. Area: E

Development of Taekwondo Karate skills, tactics, strategies, etiquette, rules and value to active living, life-long fitness, health, and wellness.

Equivalent Quarter Course: KIN 1016.

Repeatability: May be repeated for credit for a maximum of 2 units.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

G.E./G.R. Area Satisfied: *E - Lifelong Learning and Self-Development*

KIN 117 - Beginning Activities: Soccer

Units: 1 ; G.E./G.R. Area: E

Development of soccer skills, tactics, game strategies, etiquette, rules and value to active living, life-long fitness, health, and wellness.

Equivalent Quarter Course: KIN 1017.

Repeatability: May be repeated for credit for a maximum of 2 units.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

G.E./G.R. Area Satisfied: *E - Lifelong Learning and Self-Development*

KIN 118 - Beginning Activities: Self Defense - Women

Units: 1 ; G.E./G.R. Area: E

Development of Self Defense-Woman skills, strategies, etiquette, rules, and value to active living, life-long fitness, health, and wellness.

Equivalent Quarter Course: KIN 1018.

Repeatability: May be repeated for credit for a maximum of 2 units.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

G.E./G.R. Area Satisfied: *E - Lifelong Learning and Self-Development*

KIN 119 - Beginning Activities: Brazilian Jiu Jitsu

Units: 1 ; G.E./G.R. Area: E

Development of Brazilian Jiu Jitsu skills, strategies, etiquette, rules and value to active living, life-long fitness, health, and wellness.

Repeatability: May be repeated for credit for a maximum of 2 units.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

G.E./G.R. Area Satisfied: *E - Lifelong Learning and Self-Development*

KIN 121 - Beginning Activities: Golf

Units: 1 ; G.E./G.R. Area: E

Development of golf skills, tactics, game strategies, etiquette, rules, and value to active living, life-long fitness, health, and wellness.

Equivalent Quarter Course: KIN 1021.

Repeatability: May be repeated for credit for a maximum of 2 units.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

G.E./G.R. Area Satisfied: *E - Lifelong Learning and Self-Development*

KIN 124 - Beginning Activities: Tennis

Units: 1 ; G.E./G.R. Area: E

Development of tennis skills, tactics, game strategies, etiquette, rules and value to active living, life-long fitness, health, and wellness.

Equivalent Quarter Course: KIN 1024.

Repeatability: May be repeated for credit for a maximum of 2 units.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

G.E./G.R. Area Satisfied: *E - Lifelong Learning and Self-Development*

KIN 128 - Beginning Activities: Jogging

Units: 1 ; G.E./G.R. Area: E

Development of jogging techniques, strategies, etiquette, rules and value to active living, life-long fitness, health, and wellness.

Equivalent Quarter Course: KIN 1028.

Repeatability: May be repeated for credit for a maximum of 2 units.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

G.E./G.R. Area Satisfied: *E - Lifelong Learning and Self-Development*

KIN 132 - Beginning Activities: Aerobic Fitness - Lap Swimming

Units: 1 ; G.E./G.R. Area: E

Development of swimming technique, lap swimming strategies, etiquette, rules and value to active living, life-long fitness, health, and wellness.

Equivalent Quarter Course: KIN 1032.

Repeatability: Course may be repeated for credit for a maximum of 2 units.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

G.E./G.R. Area Satisfied: *E - Lifelong Learning and Self-Development*

KIN 133 - Beginning Activities: Relaxation

Units: 1 ; G.E./G.R. Area: E

Development of relaxation techniques, strategies, etiquette, rules and value to active living, life-long fitness, health and wellness.

Repeatability: May be repeated for credit for a maximum of 2 units.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

G.E./G.R. Area Satisfied: *E - Lifelong Learning and Self-Development*

KIN 134 - Beginning Activities: Yoga

Units: 1 ; G.E./G.R. Area: E

Development of yoga techniques, strategies, etiquette, rules and value to active living, life-long fitness, health, and wellness.

Equivalent Quarter Course: KIN 1034.

Repeatability: May be repeated for credit for a maximum of 2 units.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

G.E./G.R. Area Satisfied: *E - Lifelong Learning and Self-Development*

KIN 135 - Beginning Activities: Tai Chi

Units: 1 ; G.E./G.R. Area: E

Development of Tai Chi skills, techniques, strategies, etiquette, rules and value to active living, life-long fitness, health, and wellness.

Equivalent Quarter Course: KIN 1035.

Repeatability: May be repeated for credit for a maximum of 2 units.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

G.E./G.R. Area Satisfied: *E - Lifelong Learning and Self-Development*

KIN 136 - Beginning Activities: Dance Fitness

Units: 1 ; G.E./G.R. Area: E

Development of Dance Fitness skills, techniques, strategies, etiquette, rules and value to active living, life-long fitness, health, and wellness.

Equivalent Quarter Course: KIN 1036.

Repeatability: May be repeated for credit for a maximum of 2 units.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

G.E./G.R. Area Satisfied: *E - Lifelong Learning and Self-Development*

KIN 138 - Beginning Activities: Aerobic Fitness - Kick Boxing

Units: 1 ; G.E./G.R. Area: E

Development of kick boxing techniques, tactics, strategies, etiquette, rules and value to active living, life-

long fitness, health, and wellness.

Equivalent Quarter Course: KIN 1038.

Repeatability: May be repeated for credit for a maximum of 2 units.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

G.E./G.R. Area Satisfied: *E - Lifelong Learning and Self-Development*

KIN 139 - Beginning Activities: Spin

Units: 1 ; G.E./G.R. Area: E

Development of basic spin skills, etiquette, and value to active living, life-long fitness, health and wellness.

Repeatability: May be repeated for credit for a maximum of 2 units.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

G.E./G.R. Area Satisfied: *E - Lifelong Learning and Self-Development*

KIN 140 - Beginning Activities: Water Aerobics

Units: 1 ; G.E./G.R. Area: E

Basic water aerobics for toning, weight loss, and overall body conditioning. Proper warm-up and cool down techniques.

Repeatability: May be repeated for credit for a maximum of 2 units.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

G.E./G.R. Area Satisfied: *E - Lifelong Learning and Self-Development*

KIN 141 - Beginning Activities: Aerobic Condition

Units: 1 ; G.E./G.R. Area: E

Overall basic aerobic and resistance training for toning, weight loss, and overall body conditioning. Proper warm-up and cool down techniques. Heart rate monitoring. Circuit changes throughout the semester.

Equivalent Quarter Course: KIN 1041.

Repeatability: May be repeated for credit for a maximum of 2 units.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

G.E./G.R. Area Satisfied: *E - Lifelong Learning and Self-Development*

KIN 143 - Beginning Activities: Pilates

Units: 1 ; G.E./G.R. Area: E

Pilates is a non-impact, integrative exercise method. Fundamentals, basics and beginning mat work. Strengthening core muscles to improve posture, limb mobility and overall flexibility and balance.

Equivalent Quarter Course: KIN 1043.

Repeatability: May be repeated for credit for a maximum of 2 units.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

G.E./G.R. Area Satisfied: *E - Lifelong Learning and Self-Development*

KIN 144 - Beginning Activities: Boot Camp Fitness

Units: 1 ; G.E./G.R. Area: E

Intense conditioning that incorporates a full body workout using cardiovascular, strength, endurance, and stretching exercises.

Equivalent Quarter Course: KIN 1044.

Repeatability: May be repeated for credit for a maximum of 2 units.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

G.E./G.R. Area Satisfied: *E - Lifelong Learning and Self-Development*

KIN 145 - Beginning Activities: Firm and Tone

Units: 1 ; G.E./G.R. Area: E

Beginning Firm and Tone is designed for strengthening the core muscles to improve posture, limb mobility and overall flexibility and balance.

Equivalent Quarter Course: KIN 1045.

Repeatability: May be repeated for credit for a maximum of 2 units.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

G.E./G.R. Area Satisfied: *E - Lifelong Learning and Self-Development*

KIN 147 - Beginning Activities: Indoor Soccer

Units: 1 ; G.E./G.R. Area: E

Development of indoor soccer skills, tactics, game strategies, etiquette, rules and value to active living, life-long fitness, health and wellness.

Equivalent Quarter Course: KIN 1047.

Repeatability: May be repeated for credit for a maximum of 2 units.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

G.E./G.R. Area Satisfied: *E - Lifelong Learning and Self-Development*

KIN 148 - Beginning Activities: Soccer - Tennis

Units: 1 ; G.E./G.R. Area: E

Development of soccer-tennis skills, tactics, game strategies, etiquette, rules and value of active living, life-long fitness, health, and wellness.

Equivalent Quarter Course: KIN 1048.

Repeatability: Course may be repeated for credit for a maximum of 2 units.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

G.E./G.R. Area Satisfied: *E - Lifelong Learning and Self-Development*

KIN 149 - Beginning Activities: Aerobic Walking

Units: 1 ; G.E./G.R. Area: E

Development of proficiency in basic walking techniques, and understanding of the cardiovascular benefits of walking, and how they contribute towards life-long fitness, health and wellness.

Equivalent Quarter Course: KIN 1049.

Repeatability: May be repeated for credit for a maximum of 2 units.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

G.E./G.R. Area Satisfied: *E - Lifelong Learning and Self-Development*

KIN 152 - Beginning Activities: Water Polo

Units: 1 ; G.E./G.R. Area: E

Basic skills required for water polo. Conditioning, ball skills, strategy, tactics, rules and value of active living, life-long fitness, health, and wellness.

Equivalent Quarter Course: KIN 1052.

Repeatability: Course may be repeated for credit for a maximum of 2 units.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

G.E./G.R. Area Satisfied: *E - Lifelong Learning and Self-Development*

KIN 154 - Beginning Activities: Flag Football

Units: 1 ; G.E./G.R. Area: E

Emphasis on basic skill development, rules, strategies, safety, and sportsmanship involved in playing both competitively and recreationally.

Equivalent Quarter Course: KIN 1054.

Repeatability: Course may be repeated for credit for a maximum of 2 units.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

G.E./G.R. Area Satisfied: *E - Lifelong Learning and Self-Development*

KIN 155 - Beginning Activities: Table Tennis

Units: 1 ; G.E./G.R. Area: E

Emphasis on basic skill development, rules, strategies, safety, and etiquette necessary to play both competitively and recreationally.

Equivalent Quarter Course: KIN 1055.

Repeatability: May be repeated for credit for a maximum of 2 units.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

G.E./G.R. Area Satisfied: *E - Lifelong Learning and Self-Development*

KIN 156 - Beginning Activities: Ultimate

Units: 1 ; G.E./G.R. Area: E

Non-stop movement, athletic endurance, aerial passing skills with a disc. Introduction to basic skills and strategy.

Equivalent Quarter Course: KIN 1056.

Repeatability: May be repeated once for credit, for a maximum of 2 units.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

G.E./G.R. Area Satisfied: *E - Lifelong Learning and Self-Development*

KIN 160 - Introduction to Kinesiology

Units: 3 ; G.E./G.R. Area: D1-3

Study of human movement from humanities, behavioral science, and life science perspectives. Overview of career opportunities in field of kinesiology.

Equivalent Quarter Course: KIN 1610 or KIN 1611.

Possible Instructional Methods: *Entirely On-ground, Entirely On-line, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F grading only.

G.E./G.R. Area Satisfied: *D1-3 - Lower Division Social Sciences*

KIN 162 - Nutrition and Performance

Units: 3 ; G.E./G.R. Area: B2

Theories and principles of nutrients, basic diet, weight management, exercise demands, training principles, fitness development and effective nutritional practices.

Equivalent Quarter Course: KIN 1625 or KIN 1626.

Possible Instructional Methods: *Entirely On-ground, Entirely On-line, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F grading only.

G.E./G.R. Area Satisfied: *B2 - Lower Division Life Sciences*

KIN 200 - Intermediate Activities: Badminton

Units: 1 ; G.E./G.R. Area: E

Emphasis on instruction for persons with intermediate level skills to develop rules, strategies, safety, and etiquette necessary to play both competitively and recreationally.

Strongly Recommended Preparation: Prior experience in the activity - check with instructor.

Equivalent Quarter Course: KIN 2000.

Repeatability: May be repeated for credit for a maximum of 2 units.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

G.E./G.R. Area Satisfied: *E - Lifelong Learning and Self-Development*

KIN 201 - Intermediate Activities: Basketball

Units: 1 ; G.E./G.R. Area: E

Emphasis on more advanced and challenging skill development, rules, strategies, safety, and etiquette necessary to play both competitively and recreationally.

Strongly Recommended Preparation: Prior experience in the activity - check with instructor.

Equivalent Quarter Course: KIN 2001.

Repeatability: May be repeated for credit for a maximum of 2 units.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

G.E./G.R. Area Satisfied: *E - Lifelong Learning and Self-Development*

KIN 207 - Intermediate Activities: Swimming

Units: 1 ; G.E./G.R. Area: E

Emphasis on more advanced and challenging skill development, rules, strategies, safety, etiquette, and value to active living, life-long fitness, health, and wellness.

Strongly Recommended Preparation: Prior experience in the activity - check with instructor.

Equivalent Quarter Course: KIN 2007.

Repeatability: May be repeated for credit for a maximum of 2 units.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

G.E./G.R. Area Satisfied: *E - Lifelong Learning and Self-Development*

KIN 209 - Intermediate Activities: Volleyball

Units: 1 ; G.E./G.R. Area: E

Instruction at intermediate level skill, life-long fitness, health, and wellness.

Strongly Recommended Preparation: Prior experience in the activity - check with instructor.

Equivalent Quarter Course: KIN 2009.

Repeatability: May be repeated for credit for a maximum of 2 units.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

G.E./G.R. Area Satisfied: *E - Lifelong Learning and Self-Development*

KIN 210 - Intermediate Activities: Weight Training

Units: 1 ; G.E./G.R. Area: E

Instruction at intermediate level skill, life-long fitness, health, and wellness.

Strongly Recommended Preparation: Prior experience in the activity - check with instructor.

Equivalent Quarter Course: KIN 2010.

Repeatability: May be repeated for credit for a maximum of 2 units.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

G.E./G.R. Area Satisfied: *E - Lifelong Learning and Self-Development*

KIN 211 - Intermediate Activities: Circuit Training

Units: 1 ; G.E./G.R. Area: E

Aerobic conditioning and resistance training for increased toning and overall body conditioning. Proper warm-up and cool down. Heart rate monitoring. Circuit changes throughout the semester.

Strongly Recommended Preparation: Prior experience in the activity - check with instructor.

Equivalent Quarter Course: KIN 2011.

Repeatability: May be repeated for credit for a maximum of 2 units.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

G.E./G.R. Area Satisfied: *E - Lifelong Learning and Self-Development*

KIN 212 - Intermediate Activities: Fitness Training

Units: 1 ; G.E./G.R. Area: E

Intermediate fitness training is designed for strengthening muscles to improve mobility, life-long fitness, health, and wellness.

Strongly Recommended Preparation: Prior experience in the activity - check with instructor.

Equivalent Quarter Course: KIN 2012.

Repeatability: May be repeated for credit for a maximum of 2 units.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

G.E./G.R. Area Satisfied: *E - Lifelong Learning and Self-Development*

KIN 216 - Intermediate Activities: Taekwondo

Units: 1 ; G.E./G.R. Area: E

Instruction for persons with intermediate level skill in Taekwondo, a Korean martial art in self defense that emphasizes training of the body and mind.

Strongly Recommended Preparation: Prior experience in the activity - check with instructor.

Equivalent Quarter Course: KIN 2016.

Repeatability: May be repeated for credit for a maximum of 2 units.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

G.E./G.R. Area Satisfied: *E - Lifelong Learning and Self-Development*

KIN 217 - Intermediate Activities: Soccer

Units: 1 ; G.E./G.R. Area: E

Advancement of soccer skills, tactics, game strategies, etiquette, rules and value to active living, life-long fitness, health and wellness.

Strongly Recommended Preparation: Prior experience in the activity - check with instructor.

Equivalent Quarter Course: KIN 2017.

Repeatability: May be repeated for credit for a maximum of 2 units.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

G.E./G.R. Area Satisfied: *E - Lifelong Learning and Self-Development*

KIN 224 - Intermediate Activities: Tennis

Units: 1 ; G.E./G.R. Area: E

Advancement of tennis skills, tactics, game strategies, etiquette, rules and value to active living, life-long fitness, health and wellness.

Strongly Recommended Preparation: Prior experience in the activity - check with instructor.

Equivalent Quarter Course: KIN 2024.

Repeatability: May be repeated for credit for a maximum of 2 units.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

G.E./G.R. Area Satisfied: *E - Lifelong Learning and Self-Development*

KIN 234 - Intermediate Activities: Yoga

Units: 1 ; G.E./G.R. Area: E

Variations of well-known Yoga positions, emphasizing a balanced approach to Yoga that embraces relaxation, flexibility, strength and cardiovascular training. Developing a unique, individual practice appropriate for students' fitness levels and goals.

Strongly Recommended Preparation: Prior experience in the activity - check with instructor.

Equivalent Quarter Course: KIN 2034.

Repeatability: May be repeated for credit for a maximum of 2 units.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

G.E./G.R. Area Satisfied: *E - Lifelong Learning and Self-Development*

KIN 235 - Intermediate Activities: Tai Chi

Units: 1 ; G.E./G.R. Area: E

Introduction to Intermediate Tai Chi movement practice, with an emphasis on training of the body and mind.

Strongly Recommended Preparation: Prior experience in the activity - check with instructor.

Equivalent Quarter Course: KIN 2035.

Repeatability: May be repeated for credit for a maximum of 2 units.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

G.E./G.R. Area Satisfied: *E - Lifelong Learning and Self-Development*

KIN 238 - Intermediate Activities: Kick Boxing

Units: 1 ; G.E./G.R. Area: E

Intermediate-level conditioning class that emphasizes non-contact aerobic conditioning activity combining punches, kicks, traditional aerobic skills, and fitness activities. Designed to enhance cardiovascular endurance, muscular strength, and muscular endurance.

Strongly Recommended Preparation: Prior experience in the activity - check with instructor.

Equivalent Quarter Course: KIN 2038.

Repeatability: May be repeated for credit for a maximum of 2 units.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

G.E./G.R. Area Satisfied: *E - Lifelong Learning and Self-Development*

KIN 240 - Intermediate Activities: Varied Activities

Units: 1 ; G.E./G.R. Area: E

Non-traditional sports (e.g., racquetball, wallyball, and pickleball) with an emphasis on intermediate skills, strategies, safety, and sportsmanship involved in playing both competitively and recreationally.

Strongly Recommended Preparation: Prior experience in the activity - check with instructor.

Equivalent Quarter Course: KIN 2040.

Repeatability: May be repeated for credit for a maximum of 2 units.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

G.E./G.R. Area Satisfied: *E - Lifelong Learning and Self-Development*

KIN 241 - Intermediate Activities: Aerobic Conditioning

Units: 1 ; G.E./G.R. Area: E

Intermediate level conditioning class that emphasizes cardiovascular endurance activities through a variety of exercises that stimulate heart and lung activity in an aerobic capacity.

Strongly Recommended Preparation: Prior experience in the activity - check with instructor.

Equivalent Quarter Course: KIN 2041.

Repeatability: May be repeated for credit for a maximum of 2 units.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

G.E./G.R. Area Satisfied: *E - Lifelong Learning and Self-Development*

KIN 242 - Intermediate Activities: Pilates

Units: 1 ; G.E./G.R. Area: E

Intermediate level Pilates building on the fundamentals. Strengthening core muscles to improve posture, limb mobility and overall flexibility and balance.

Strongly Recommended Preparation: Prior experience in the activity - check with instructor.

Equivalent Quarter Course: KIN 2043.

Repeatability: May be repeated for credit for a maximum of 2 units.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

G.E./G.R. Area Satisfied: *E - Lifelong Learning and Self-Development*

KIN 247 - Intermediate Activities: Indoor Soccer

Units: 1 ; G.E./G.R. Area: E

Intermediate skills, strategies, safety, and sportsmanship involved in playing both competitively and recreationally.

Strongly Recommended Preparation: Prior experience in the activity - check with instructor.

Equivalent Quarter Course: KIN 2047.

Repeatability: May be repeated for credit for a maximum of 2 units.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

G.E./G.R. Area Satisfied: *E - Lifelong Learning and Self-Development*

KIN 251 - Advanced Activities: Basketball

Units: 1 ; G.E./G.R. Area: E

Emphasis on more advanced and challenging skill development, rules, strategies, safety, and etiquette necessary to play both competitively and recreationally.

Strongly Recommended Preparation: Substantive prior experience in the activity - check with instructor.

Equivalent Quarter Course: KIN 3501.

Repeatability: May be repeated for credit for a maximum of 2 units.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

G.E./G.R. Area Satisfied: *E - Lifelong Learning and Self-Development*

KIN 252 - Advanced Activities: Weight Training

Units: 1 ; G.E./G.R. Area: E

Designed to teach the student advanced lifts and training methods in weight training and to develop the highest level of force and to become significantly stronger through the use of muscular strength training stimulus.

Strongly Recommended Preparation: Substantive prior experience in the activity - check with instructor.

Equivalent Quarter Course: KIN 3510.

Repeatability: May be repeated for credit for a maximum of 2 units.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

G.E./G.R. Area Satisfied: *E - Lifelong Learning and Self-Development*

KIN 253 - Advanced Activities: Soccer

Units: 1 ; G.E./G.R. Area: E

Emphasis on more advanced and challenging skill development, rules, strategies, safety, and etiquette necessary to play both competitively and recreationally.

Strongly Recommended Preparation: Substantive prior experience in the activity - check with instructor.

Equivalent Quarter Course: KIN 3517.

Repeatability: May be repeated for credit for a maximum of 2 units.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

G.E./G.R. Area Satisfied: *E - Lifelong Learning and Self-Development*

KIN 254 - Intermediate Activities: Flag Football

Units: 1 ; G.E./G.R. Area: E

Intermediate skills, strategies, safety, and sportsmanship involved in playing both competitively and recreationally.

Strongly Recommended Preparation: Prior experience in the activity - check with instructor.

Equivalent Quarter Course: KIN 2054.

Repeatability: May be repeated once for credit for a maximum of 2 units.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice)

G.E./G.R. Area Satisfied: *E - Lifelong Learning and Self-Development*

KIN 255 - Intermediate Activities: Table Tennis

Units: 1 ; G.E./G.R. Area: E

Intermediate skills, strategies, safety, and sportsmanship involved in playing both competitively and recreationally.

Strongly Recommended Preparation: Prior experience in the activity - check with instructor.

Equivalent Quarter Course: KIN 2055.

Repeatability: May be repeated for credit for a maximum of 2 units.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

G.E./G.R. Area Satisfied: *E - Lifelong Learning and Self-Development*

KIN 258 - Advanced Activities: Yoga

Units: 1 ; G.E./G.R. Area: E

Development of advanced-level skills and knowledge related to Yoga. Builds upon the fundamental skills and techniques developed in the beginning and intermediate Yoga classes.

Strongly Recommended Preparation: Substantive prior experience in the activity - check with instructor.

Equivalent Quarter Course: KIN 3534.

Repeatability: May be repeated for credit for a maximum of 2 units.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

G.E./G.R. Area Satisfied: *E - Lifelong Learning and Self-Development*

KIN 261 - Competition Conditioning

Units: 2 ; G.E./G.R. Area: E

Principles of development of personal fitness program. Topics include goal setting, self-assessment of fitness, nutrition principles, and access to on-line information.

Equivalent Quarter Course: KIN 3545.

Repeatability: May be repeated for credit for a maximum of 4 units.

Possible Instructional Methods: *Entirely On-ground, Entirely On-line, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F or CR/NC (student choice).

G.E./G.R. Area Satisfied: *E - Lifelong Learning and Self-Development*

KIN 265 - CPR and First Aid

Units: 2 ; G.E./G.R. Area: E

Adult and pediatric CPR/AED and First Aid. Meets qualifications for Red Cross certification. First Aid and CPR/AED certification. Includes modules in Disaster Preparedness and the use of an epinephrine auto-injector.

Equivalent Quarter Course: KIN 2650.

Repeatability: May be repeated for credit for a maximum of 4 units.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

G.E./G.R. Area Satisfied: *E - Lifelong Learning and Self-Development*

KIN 270 - Women and Sport

Units: 3 ; G.E./G.R. Area: D1-3; Diversity

Experiences of girls and women in sport from social, cultural and historical perspectives. Constructs of gender, race, ethnicity, and sexuality will be examined. Ideological constraints, structural constraints, and individual and collective resistance will be explored.

Equivalent Quarter Course: KIN 2700.

Possible Instructional Methods: *Entirely On-ground, Entirely On-line, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F or CR/NC (student choice).

G.E./G.R. Area Satisfied: *D1-3 - Lower Division Social Sciences, Overlay - Diversity*

KIN 300 - Critical Inquiry in Kinesiology

Units: 4

Theory and application of research methods and data analysis to professional practice in kinesiology. Develop knowledge and skills to be a consumer and producer of research in kinesiology.

Prerequisites: All of: B.S. Kinesiology major, Junior standing or above, BIOL 270, BIOL 271.

Equivalent Quarter Course: KIN 3300.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

KIN 301 - Applied Musculoskeletal Anatomy

Units: 3

Skeletal, muscular, and nervous systems and their roles in determining movement in applied settings,

such as daily living, work, physical activity, and rehabilitation. Bone structure, bony landmarks, muscle attachments, muscle actions and resulting motions, and body planes and axes.

Prerequisites: All of: B.S. Kinesiology major, Junior standing or above, BIOL 270, BIOL 271.

Equivalent Quarter Course: KIN 3305.

Possible Instructional Methods: *Entirely On-ground, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F grading only.

KIN 302 - Social Justice in Kinesiology

Units: 4

Ways that we can promote more humane, socially just, and democratic forms of physical activity so that all people have opportunities to gain the benefits of physical activity.

Prerequisites: All of: B.S. Kinesiology major, Junior standing or above, BIOL 270, BIOL 271, KIN 300.

Equivalent Quarter Course: KIN 3750.

Possible Instructional Methods: *Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F grading only.

KIN 303 - Biomechanics

Units: 4

Kinematics and kinetics applied to the musculoskeletal system of the human body and the mechanical and muscular analysis of movement patterns. *Lecture Units: 3; Lab Units: 1*

Prerequisites: All of: B.S. Kinesiology major, Junior standing or above, BIOL 270, BIOL 271, KIN 300, KIN 301.

Equivalent Quarter Course: KIN 3310.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

KIN 304 - Motor Development

Units: 3

Theoretical perspectives on motor development research. Relevant social, physical, and cognitive influences on human movement across the lifespan. Practical applications to kinesiology careers.

Prerequisites: All of: B.S. Kinesiology major, Junior standing or above, BIOL 270, BIOL 271.

Equivalent Quarter Course: KIN 3340.

Possible Instructional Methods: *Entirely On-ground, Entirely On-line, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F grading only.

KIN 305 - Critical Issues of the Body

Units: 4

Historical and cultural assumptions about what constitutes a fit body, for whom and for what purposes. Implications of different positions about the relationship and values of physical activity and "fit" bodies.

Prerequisites: All of: B.S. Kinesiology major, Junior standing or above, BIOL 270, BIOL 271.

Equivalent Quarter Course: KIN 3740.

Possible Instructional Methods: *Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F grading only.

KIN 306 - Exercise Physiology

Units: 4

The physiological parameters and mechanisms that determine human physiological adaptations in response to exercise and physical activity. *Lecture Units: 3; Lab Units: 1*

Prerequisites: All of: B.S. Kinesiology major, Junior standing or above, BIOL 270, BIOL 271, KIN 300, KIN 301.

Equivalent Quarter Course: KIN 3320.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

KIN 307 - Motor Skill Acquisition and Training

Units: 3

Concepts and principles of motor skill acquisition and training for skilled physical performance. Overview of motor control theories and sensorimotor integration. Emphasis on principles and methods in teaching motor skills to different populations and skill levels.

Prerequisites: All of: B.S. Kinesiology major, Junior standing or above, BIOL 270, BIOL 271, KIN 300, KIN 301.

Equivalent Quarter Course: KIN 3330.

Possible Instructional Methods: *Entirely On-ground, Entirely On-line, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F grading only.

KIN 308 - Psychology of Physical Activity and Performance

Units: 4

Theoretical and evidence-based perspectives on psychological factors influencing and/or resultant of participation in physical activity and other learning and performance contexts. Topics include personality, motivation, arousal and anxiety, concentration, and group dynamics. *Lecture Units: 3; Lab Units: 1*

Strongly Recommended Preparation: KIN 307.

Prerequisites: All of: B.S. Kinesiology major, Junior standing or above, BIOL 270, BIOL 271, KIN 300.

Equivalent Quarter Course: KIN 3350 or KIN 4410.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

KIN 310 - Bone Health and Exercise

Units: 3

The relationship between bone health and exercise from adolescence to aging. Review current guidelines and literature and apply the guidelines to communities.

Prerequisites: BIOL 270 and BIOL 271.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

KIN 315 - Sport, Culture, and Power

Units: 3 ; G.E./G.R. Area: D4; Social Justice

Examination of sport as a significant social and cultural institution that impacts and is impacted by the larger society. Analysis of past and contemporary issues and controversies through various sociological frameworks.

Prerequisites: Completion of GE areas A1, A2, A3 and B4.

Equivalent Quarter Course: KIN 3750.

Possible Instructional Methods: *Entirely On-ground, Entirely On-line, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F grading only.

G.E./G.R. Area Satisfied: *D4 - Upper Division Social Sciences, Overlay - Social Justice*

KIN 320 - Sport Film: Cultural Perspectives

Units: 3 ; G.E./G.R. Area: D4; Diversity

Uses sport films to examine relationships of power in society and the way those relationships are contested and reinforced. Particular attention will be paid to cultural tensions and negotiations around issues related to race, gender, and sexuality.

Prerequisites: Completion of GE areas A1, A2, A3 and B4.

Equivalent Quarter Course: KIN 3200.

Possible Instructional Methods: *Entirely On-ground, Entirely On-line, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F or CR/NC (student choice).

G.E./G.R. Area Satisfied: *D4 - Upper Division Social Sciences, Overlay - Diversity*

KIN 321 - Elementary Classroom Teachers as Movement Educators

Units: 4

Growth and development in children with regard to physical education and the importance of physical activity for the classroom. Students explore standards based planning, team building, assessment, and

cross-curricular lesson development. Lecture Units: 3; Activity Units: 1

Prerequisites: B.A. Liberal Studies major.

Equivalent Quarter Course: KIN 3251 or KIN 3252.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

KIN 340 - Ergonomics

Units: 3

To provide knowledge and skills to anticipate, identify, analyze and control the risks that arise from physically demanding activity. Design environments that maximize the musculoskeletal health of workers.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

KIN 350 - Advanced Activities: Badminton

Units: 1

Advanced, challenging skill development, rules, strategies, safety, and etiquette necessary to play both competitively and recreationally.

Strongly Recommended Preparation: Substantive prior experience in the activity - check with instructor.

Equivalent Quarter Course: KIN 3500.

Repeatability: May be repeated for credit for a maximum of 2 units.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

KIN 354 - Advanced Activities: Taekwondo

Units: 1

Development of advanced-level skills and knowledge related to Taekwondo. Builds upon the fundamental skills and techniques developed in the beginning and intermediate Taekwondo classes.

Strongly Recommended Preparation: Substantive prior experience in the activity - check with instructor.

Equivalent Quarter Course: KIN 3516.

Repeatability: May be repeated for credit for a maximum of 2 units.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

KIN 356 - Advanced Activities: Golf

Units: 1

Emphasis on more advanced and challenging skill development, rules, strategies, safety, and etiquette

necessary to play both competitively and recreationally.

Strongly Recommended Preparation: Substantive prior experience in the activity - check with instructor.

Equivalent Quarter Course: KIN 3521.

Repeatability: May be repeated for credit for a maximum of 2 units.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

KIN 357 - Advanced Activities: Tennis

Units: 1

Emphasis on more advanced and challenging skill development, rules, strategies, safety, and etiquette necessary to play both competitively and recreationally.

Equivalent Quarter Course: KIN 3524.

Repeatability: May be repeated for credit for a maximum of 2 units.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

KIN 360 - Aerobics Instructor Training

Units: 2

Skills and knowledge necessary to teach music-based aerobics classes. Fitness assessment, choreography, routines, and music selection. Students gain experience teaching an aerobics class.

Equivalent Quarter Course: KIN 3542.

Repeatability: May be repeated for credit for a maximum of 4 units.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

KIN 362 - Advanced Activities: Indoor Soccer

Units: 1

Emphasis on more advanced and challenging skill development, rules, strategies, safety, and etiquette necessary to play both competitively and recreationally.

Strongly Recommended Preparation: Substantive prior experience in the activity - check with instructor.

Equivalent Quarter Course: KIN 3547.

Repeatability: May be repeated for credit for a maximum of 2 units.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

KIN 370 - US Twentieth Century Women's Sport

Units: 3 ; G.E./G.R. Area: C4; Diversity

Examines the social and political issues in women's sport in US twentieth century history. Gender constructions and tensions as they intersect with race, ethnicity, class, and sexuality are explored.

Prerequisites: Completion of GE areas A1, A2, A3 and B4.

Equivalent Quarter Course: KIN 3700 or KIN 3701.

Possible Instructional Methods: *Entirely On-ground, Entirely On-line, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F or CR/NC (student choice).

G.E./G.R. Area Satisfied: *C4 - Upper Division Arts or Humanities, Overlay - Diversity*

KIN 372 - Teaching Fitness and Self Defense

Units: 1

Techniques and tactics necessary for the teaching of fitness activities and self defense. Application of the California State Framework for Physical Education. Participation required. *Lecture Units: .5; Activity Units: .5*

Prerequisites: Department consent.

Equivalent Quarter Course: KIN 3079.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

KIN 375 - Concepts of Teaching Aquatics

Units: 1

Techniques and tactics for the teaching of aquatic activities. Understand and apply the California State Framework for Physical Education. Participation required. *Lecture Units: .5; Activity Units: .5*

Prerequisites: Department consent.

Equivalent Quarter Course: KIN 3075.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

KIN 379 - Games Concepts I

Units: 2

Fundamental knowledge of skill acquisition and pedagogical methods teaching team, field, individual and dual sports. Application of the California State Framework for Physical Education. Active participation in physical activities is required. *Lecture Units: 1; Activity Units: 1*

Prerequisites: Department consent.

Equivalent Quarter Course: KIN 3079 or KIN 3080.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

KIN 380 - Games Concepts II

Units: 2

Fundamental knowledge of skill acquisition and pedagogical methods for teaching nontraditional and outdoor games and sports. Application of the California State Framework for Physical Education. Active participation in physical activities is required. *Lecture Units: 1; Activity Units: 1*

Prerequisites: Department consent.

Equivalent Quarter Course: KIN 3072 or KIN 3080.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

KIN 404 - Elementary Physical Education Curriculum

Units: 3

Introduce prospective physical education teachers to recent trends in delivery of physical education programs at the elementary school level. Instructional strategies and activities appropriate for children in this setting. *Lecture Units: 2; Activity Units: 1*

Prerequisites: B.S. Kinesiology major and KIN 302.

Equivalent Quarter Course: KIN 4004.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

KIN 405 - Theories of Teaching Secondary Physical Education Curriculum

Units: 3

Introduce prospective physical education teachers to recent trends and development in the delivery of physical education programs at the secondary level. Educational theories and approaches to teaching, effective instructional strategies, and activities appropriate for adolescents.

Prerequisites: B.S. Kinesiology major and KIN 302.

Equivalent Quarter Course: KIN 4006.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

KIN 406 - Introduction to Adapted Physical Activity

Units: 3

Introduces Adapted Physical Education and activities for professional preparation in kinesiology and education.

Prerequisites: B.S. Kinesiology major and KIN 302.

Equivalent Quarter Course: KIN 4008.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

KIN 409 - Spinal Biomechanics & Low Back Disorders

Units: 3

A multidisciplinary (e.g., biomechanical, psychosocial, physiological, motor control, clinical and legislative) approach to low-back disorders to improve decision-making about assessment, injury prevention, and rehabilitation.

Prerequisites: KIN 303.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

KIN 410 - Musculoskeletal Injuries in Work and Sport

Units: 3

Mechanical principles governing force characteristics, mechanisms of injury, and healing rate of tissues in the human musculoskeletal system.

Prerequisites: KIN 303.

Co-requisites: KIN 306.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

KIN 420 - Exercise Prescription

Units: 3

Assess and interpret exercise and fitness testing, including pre-exercise participation screening and assessments of cardiorespiratory endurance, muscular strength and endurance, body composition, and flexibility. Assists with preparing for the ACSM Certified Exercise Physiologist Certification.

Prerequisites: KIN 306 with grade B or better.

Equivalent Quarter Course: KIN 4610.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

KIN 421 - Clinical Exercise Physiology

Units: 3

Perform and interpret selected clinical and physical assessments in patients with chronic diseases where exercise training has been shown to be of therapeutic benefit, including cardiovascular and pulmonary diseases, and metabolic and musculoskeletal disorders.

Prerequisites: KIN 306 with grade B or better.

Equivalent Quarter Course: KIN 4330.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

KIN 422 - Exercise Nutrition

Units: 3

Foundational nutrition concepts and current literature. Describe general recommendations for health and wellness, principles of sports nutrition, and practical applications of diet assessment and nutrition planning. Examine products designed to increase performance.

Prerequisites: KIN 306 with grade B or better.

Equivalent Quarter Course: KIN 4005.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

KIN 423 - Exercise and Stress

Units: 3

The physiology of the stress response, its role in disease, and the immediate and long-term relationship between exercise and stress.

Prerequisites: KIN 306 with grade B or better.

Equivalent Quarter Course: KIN 4615.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

KIN 424 - Exercise and Gerontology

Units: 3

Assess and define health issues common with age, understand the pathogenesis of diseases associated with age, and evaluate the benefits of physical activity and exercise to healthy aging.

Prerequisites: KIN 306.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

KIN 447 - Motor Skill Expertise

Units: 3

Science of expertise in motor skill acquisition and performance. Evidence-based concepts and principles underlying elite training and skilled physical performance. Practical applications for teaching, coaching, and training elite performers.

Strongly Recommended Preparation: Satisfactory completion of KIN 304 and KIN 308.

Prerequisites: KIN 307 with grade B or better.

Possible Instructional Methods: *Entirely On-ground, Entirely On-line, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F grading only.

KIN 448 - Mental Skills for Learning and Performance

Units: 3

Optimizing physical and cognitive learning and performance in a variety of contexts using mental skills, such as goal setting, imagery, observational learning, and self-talk.

Prerequisites: B.S. Kinesiology major, KIN 300 and KIN 308.

Equivalent Quarter Course: KIN 3205.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

KIN 451 - Intercollegiate Athletics: Basketball

Units: 1

Sport specific physical and mental fitness training and conditioning for successful participation in intercollegiate basketball.

Equivalent Quarter Course: KIN 4051.

Repeatability: Repeatable according to season for a maximum of 9 units.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

KIN 453 - Intercollegiate Athletics: Baseball

Units: 1

Sport specific physical and mental fitness training and conditioning for successful participation in intercollegiate baseball.

Equivalent Quarter Course: KIN 4053.

Repeatability: Repeatable according to season for a maximum of 9 units.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

KIN 454 - Intercollegiate Athletics: Cross-Country

Units: 1

Sport specific physical and mental fitness training and conditioning for successful participation in intercollegiate cross-country.

Equivalent Quarter Course: KIN 4054.

Repeatability: Repeatable according to season for a maximum of 9 units.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

KIN 455 - Intercollegiate Athletics: Outdoor Track

Units: 1

Sport specific physical and mental fitness training and conditioning for successful participation in intercollegiate outdoor track.

Equivalent Quarter Course: KIN 4055.

Repeatability: Repeatable according to season for a maximum of 9 units.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

KIN 458 - Intercollegiate Athletics: Golf

Units: 1

Sport specific physical and mental fitness training and conditioning for successful participation in intercollegiate golf.

Equivalent Quarter Course: KIN 4058.

Repeatability: Repeatable according to season for a maximum of 9 units.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

KIN 461 - Exercise and Well-Being

Units: 3 ; G.E./G.R. Area: B6

The application of the scientific principles underpinning exercise to improving fitness, health, and well-being. Using quantitative skills to critically evaluate claims as to the benefits of exercise on health and well-being.

Prerequisites: Completion of GE areas A1, A2, A3 and B4.

Credit Restrictions: Not open for credit to Kinesiology majors or minors.

Equivalent Quarter Course: KIN 4614.

Possible Instructional Methods: *Entirely On-ground, Entirely On-line, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F grading only.

G.E./G.R. Area Satisfied: *B6 - Upper Division Science Inquiry and Quantitative Reasoning*

KIN 462 - Intercollegiate Athletics: Women's Basketball

Units: 1

Sport specific physical and mental fitness training and conditioning for successful participation in

intercollegiate women's basketball.

Equivalent Quarter Course: KIN 4062.

Repeatability: Repeatable according to season for a maximum of 9 units.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

KIN 468 - Intercollegiate Athletics: Women's Volleyball

Units: 1

Sport specific physical and mental fitness training and conditioning for successful participation in intercollegiate women's volleyball.

Equivalent Quarter Course: KIN 4068.

Repeatability: Repeatable according to season for a maximum of 9 units.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

KIN 469 - Intercollegiate Athletics: Soccer

Units: 1

Sport specific physical and mental fitness training and conditioning for successful participation in intercollegiate soccer.

Equivalent Quarter Course: KIN 4069.

Repeatability: Repeatable according to season for a maximum of 9 units.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

KIN 470 - Sport in the Local Community

Units: 3

Examine how local city spaces where sport occurs are constituted and promoted according to distinguishers of race, ethnicity, social class, culture and immigration.

Prerequisites: KIN 302 or KIN 305.

Possible Instructional Methods: *Entirely On-ground, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F grading only.

KIN 474 - Intercollegiate Athletics: Women's Softball

Units: 1

Sport specific physical and mental fitness training and conditioning for successful participation in intercollegiate women's softball.

Equivalent Quarter Course: KIN 4074.

Repeatability: Repeatable according to season for a maximum of 9 units.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

KIN 477 - Intercollegiate Athletics: Women's Swimming

Units: 1

Sport specific physical and mental fitness training and conditioning for successful participation in intercollegiate women's swimming.

Equivalent Quarter Course: KIN 4077.

Repeatability: Repeatable according to season for a maximum of 9 units.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

KIN 478 - Intercollegiate Athletics: Women's Waterpolo

Units: 1

Sport specific physical and mental fitness training and conditioning for successful participation in intercollegiate women's waterpolo.

Equivalent Quarter Course: KIN 4078.

Repeatability: Repeatable according to season for a maximum of 9 units.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

KIN 480 - Gender and Sexualities in Sport

Units: 3

The relationship between sex, gender, sexuality, and sport. Topics include sport and intersectionality, the body, and homophobia.

Prerequisites: Kinesiology major.

Possible Instructional Methods: *Entirely On-ground, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F grading only.

KIN 483 - Intercollegiate Athletics: Women's Soccer

Units: 1

Sport specific physical and mental fitness training and conditioning for successful participation in intercollegiate women's soccer.

Equivalent Quarter Course: KIN 4083.

Repeatability: Repeatable according to season for a maximum of 9 units.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

KIN 489 - Sport, Racism, and Ethnicity

Units: 3 ; G.E./G.R. Area: D4; Social Justice

Sport as a cultural site that reproduces and challenges racial and ethnic inequalities and ideologies.

Prerequisites: Kinesiology major and completion of GE areas A1, A2, A3 and B4.

Equivalent Quarter Course: KIN 3735.

Possible Instructional Methods: *Entirely On-ground, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F grading only.

G.E./G.R. Area Satisfied: *D4 - Upper Division Social Sciences, Overlay - Social Justice*

KIN 490 - Independent Study

Units: 1 - 3

Individual investigation of a specific issue, area, or topic in kinesiology planned in consultation with a department faculty member.

Prerequisites: Department consent and minimum 2.0 GPA.

Equivalent Quarter Course: KIN 4900.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

KIN 493 - Project

Units: 1 - 3

Applied project approved and supervised by a department faculty member addressing specific need, issue or problem in kinesiology summarized in a written report.

Strongly Recommended Preparation: Completion of core KIN classes.

Prerequisites: Kinesiology major.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

KIN 495 - Practicum in Kinesiology

Units: 1 - 3

Field experiences to observe and document how working professionals perform their job responsibilities.

Strongly Recommended Preparation: Completion of the kinesiology core.

Prerequisites: Kinesiology major.

Equivalent Quarter Course: KIN 4030.

Repeatability: Yes

Possible Instructional Methods: *Entirely On-ground.*

Grading: CR/NC grading only.

KIN 497 - Contemporary Issues in Kinesiology

Units: 3

Readings, discussion, and research on contemporary and/or significant issues in kinesiology.

Strongly Recommended Preparation: Completed core kinesiology classes.

Prerequisites: Kinesiology major.

Equivalent Quarter Course: KIN 3999.

Repeatability: May be repeated for credit when content varies, for a maximum of 6 units.

Possible Instructional Methods: *Entirely On-ground, Entirely On-line, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F grading only.

KIN 498 - Internship

Units: 1 - 3

Supervised professional field experience in a setting related to kinesiology. Application of theory to practice.

Strongly Recommended Preparation: Completion of B.S. Kinesiology major core classes.

Prerequisites: B.S. Kinesiology major, Junior or Senior standing and department consent.

Equivalent Quarter Course: KIN 4031.

Repeatability: May be repeated for credit for a maximum of 3 units.

Possible Instructional Methods: *Entirely On-ground.*

Grading: CR/NC grading only.

Kinesiology: Graduate

KIN 601 - Knowledge Construction in Kinesiology

Units: 4

Developing information literacy skills: Finding, critically evaluating, and interpreting scholarly methods, research, and theory. Analyzing and synthesizing information from multiple sources, proposing conclusions and further lines of inquiry.

Prerequisites: M.S. Kinesiology major.

Equivalent Quarter Course: KIN 6000.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

KIN 602 - Critical Perspectives on the Body

Units: 4

Explores the ways in which the body has been and is culturally created and shaped in a socio-political context. The fields of health/wellness, physical education, and sport will provide spaces to examine ideological influences on the body is represented and understood.

Equivalent Quarter Course: KIN 6435.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

KIN 603 - Psychomotor Aspects of Learning and Performance

Units: 4

Evaluating the impact of human cognition, attitudes, beliefs, and perceptions on motor-skill learning and performance. Emphasis on the importance of evidence-based and contextualized approaches to individual learners, performers, and groups.

Prerequisites: Post-baccalaureate standing.

Equivalent Quarter Course: KIN 6411 or 6412.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

KIN 604 - Effective Movement Instruction

Units: 4

Applies principles of effective movement instruction, evaluation, and feedback methods. Emphasis on the importance of personal, environmental, situational factors and their interaction in structuring learning and performance environments.

Prerequisites: Post-baccalaureate standing.

Equivalent Quarter Course: KIN 6605.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

KIN 605 - Physiological Basis of Exercise and Wellness

Units: 4

Evaluating the impact of exercise and physical activity on physiological systems and their mechanisms of adaptation. Application of concepts to the mitigation of chronic disease will also be investigated.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

KIN 606 - Current Trends in Kinesiology: Myth Busters

Units: 4

Challenging current trends in health, wellness, and physical activity by critically assessing, interpreting, and synthesizing relevant kinesiology research and theory.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

KIN 607 - Assessment of Human Performance

Units: 4

Assessing human performance using a range of tools and methodologies. Evaluating limitations within testing environments and protocols available in a range of settings. Communicating and interpreting outcomes to the learner/performer.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

KIN 608 - Biomechanics of Musculoskeletal Injury

Units: 4

Examining the structure, composition and material behavior of the skeletal tissues, including bone, cartilage, tendon, ligament and muscle. Analysis of injury and degenerative changes associated with aging. Problem-based approach.

Strongly Recommended Preparation: Undergraduate Biomechanics.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

KIN 609 - Synthesis in Kinesiology

Units: 4

Applying Kinesiology knowledge and perspectives to complete a research project, major literature review, internship, community service project, or University thesis. Developed in consultation with graduate adviser, must include considerable background information search, documentation and reporting of outcomes and conclusions.

Strongly Recommended Preparation: At least 4 other graduate courses in KIN.

Prerequisites: KIN 601.

Credit Restrictions: KIN Post-Baccalaureate only

Equivalent Quarter Course: KIN 6710.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

KIN 685 - Supervised Research

Units: 1-4

Independent research under direction of faculty.

Prerequisites: Department consent.

Credit Restrictions: Open to Kinesiology majors only.

Equivalent Quarter Course: KIN 6850.

Repeatability: May be repeated for credit for a maximum of 4 units.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

KIN 690 - Independent Study

Units: 1-4

Individual investigation of a specific issue, area or topic in kinesiology planned in consultation with a department faculty member.

Prerequisites: Department consent, minimum 3.0 GPA.

Credit Restrictions: Open to Kinesiology majors only.

Equivalent Quarter Course: Replaces independent study course from quarter program (KIN5900 or KIN6900). Equivalency to same units taken.

Repeatability: Course may be repeated for credit for a maximum of 4 units.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

KIN 691 - University Thesis

Units: 4

Investigation of area or problem in kinesiology. Address meaningful research question and write a formal research paper submitted to University. Supervision by departmental committee; at least one member must be on graduate faculty. Oral defense required.

Strongly Recommended Preparation: Capstone course that should be taken in the last semester of the program.

Credit Restrictions: Open to Kinesiology majors only.

Equivalent Quarter Course: KIN 6910.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

KIN 692 - Comprehensive Exam Review

Units: 4

Prepare for comprehensive examination. Oral defense may be required.

Strongly Recommended Preparation: Capstone course to be taken in the last semester of study.

Prerequisites: Kinesiology major.

Credit Restrictions: Open to Kinesiology majors only.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

KIN 693 - Project

Units: 4

Applied project addressing specific need, perspective, issue or problem in kinesiology. Developed in consultation with adviser; must include expansive information search, documentation of the application, reporting of outcomes and conclusions. An oral defense of the project may be required.

Strongly Recommended Preparation: Capstone courses to be taken in last semester of study.

Credit Restrictions: Open to Kinesiology majors only.

Equivalent Quarter Course: KIN 6899.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

KIN 697 - Contemporary Issues in Kinesiology

Units: 4

Selected topics on issues of contemporary importance in kinesiology.

Credit Restrictions: Open to Kinesiology majors only.

Equivalent Quarter Course: KIN 6700.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

KIN 698 - Internship

Units: 1-4

Supervised professional field experience in a setting related to kinesiology. Application of theory to practice.

Credit Restrictions: Open to Kinesiology majors only.

Repeatability: Course may be repeated for credit for a maximum of 4 units.

Possible Instructional Methods: *Entirely On-ground.*

Grading: CR/NC grading only.

Liberal Studies

LBST 201 - Introduction to Liberal Studies

Units: 3

Introduction to the liberal arts educational approach, and application of interdisciplinary perspective to selected contemporary issues. Emphasis on information, reasoning, and evidence in written and/or visual

presentations.

Credit Restrictions: Not open to students with credit in HUM 2010.

Equivalent Quarter Course: HUM 2010.

Possible Instructional Methods: *Entirely On-line, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F grading only.

LBST 499 - Liberal Studies Senior Seminar

Units: 3

Capstone course for the Liberal Studies majors. Emphasis on interdisciplinary analysis of a significant contemporary issue. Written and/or web-based presentation of research and/or community engagement activities, and student learning outcomes portfolio.

Credit Restrictions: Not open to students with credit in HUM 4020.

Equivalent Quarter Course: HUM 4020.

Possible Instructional Methods: *Entirely On-line, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F grading only.

Management

BUS 110 - Fundamentals of Information Systems and Applications

Units: 3

Computer hardware, software and information systems relating to the business environment. Focus on business applications of software including word processing, spreadsheets, databases, presentation, and business-oriented utilization of information technology.

Equivalent Quarter Course: ITM 1270.

Possible Instructional Methods: *Entirely On-ground, Entirely On-line.*

Grading: A-F grading only.

BUS 310 - Organizational Behavior

Units: 3

The translation of organizational behavior theory and research to practices for creating productive organizations that are great workplaces. Students examine behavior at the individual, group and organizational level to explain, predict and change behavior at work.

Strongly Recommended Preparation: Junior, senior, or post-bacc standing.

Equivalent Quarter Course: MGMT 3614.

Possible Instructional Methods: *Entirely On-ground, Entirely On-line.*

Grading: A-F grading only.

BUS 320 - Business and Professional Ethics

Units: 3

Value systems and ethical issues related to business, professional, and commercial activity. Topics may include ethical decision-making, organizational culture, ethical leadership, diversity, and corporate social responsibility.

Equivalent Quarter Course: MGMT 3560 .

Possible Instructional Methods: *Entirely On-ground, Entirely On-line.*

Grading: A-F grading only.

BUS 340 - Information Technology Management

Units: 3

Effective and efficient uses of information technology in business problems. Topics include Excel for business operations and support, Excel for data analytics, database management systems, telecommunications, case studies and projects related to Excel-based solutions to business applications.

Equivalent Quarter Course: ITM 3060.

Possible Instructional Methods: *Entirely On-ground, Entirely On-line.*

Grading: A-F grading only.

BUS 360 - Operations Management

Units: 3

Management of operations in service and manufacturing organizations. Topics include: operations strategy in global environment, new product and service development, quality management and control, process and capacity management, supply chain management and sustainability, inventory control, and lean management.

Prerequisites: MGMT 350.

Equivalent Quarter Course: MGMT 3620.

Possible Instructional Methods: *Entirely On-ground, Entirely On-line.*

Grading: A-F grading only.

BUS 370 - Business, Government and Society

Units: 3

Focus on how to proactively anticipate, critically analyze, and appropriately respond to the social, political, regulatory, ethical, and technological challenges that confront managers.

Prerequisites: Senior standing and BUS 320.

Equivalent Quarter Course: MGMT 4500

Possible Instructional Methods: *Entirely On-ground, Entirely On-line.*

Grading: A-F grading only.

BUS 385 - International Business

Units: 3

The cultural, political, and economic environments of international businesses as well as the strategies that businesses pursue in a global context.

Prerequisites: Senior standing.

Equivalent Quarter Course: MGMT 4670.

Possible Instructional Methods: *Entirely On-ground, Entirely On-line.*

Grading: A-F grading only.

BUS 499 - Seminar in Strategic Business Management

Units: 3

Use of business strategy concepts, tools, cases, and strategic planning to identify external influences on businesses, analyze the competitive environment in which organizations operate, assess strategic options for a firm, and craft plans for executing business strategy. Students must have application for graduation on file for department consent.

Prerequisites: BUS 325, BUS 330, MGMT 350 and BUS 370 or ACCT 370 and University Writing Skills Requirement (UWSR) and department consent.

Equivalent Quarter Course: MGMT 4650.

Possible Instructional Methods: *Entirely On-ground, Entirely On-line.*

Grading: A-F grading only.

MGMT 311 - Managing Diversity in the 21st Century Workplace

Units: 3

Challenges and rewards associated with managing today's increasingly diverse workforce. It responds to demographic and global changes in the workplace by framing diversity and inclusion as a resource to be leveraged rather than a problem.

Prerequisites: Junior, senior or post-baccalaureate standing.

Possible Instructional Methods: *Entirely On-ground, Entirely On-line.*

Grading: A-F grading only.

MGMT 312 - Human Resources Management

Units: 3

Human resources management for human resource professionals and general managers. Representative topics include recruitment and selection, training and development, performance management, compensation and benefits. Emphasizes how organizations manage human resources to obtain and sustain a competitive advantage.

Prerequisites: Junior, senior or post-baccalaureate standing.

Equivalent Quarter Course: MGMT 3610.

Possible Instructional Methods: *Entirely On-ground, Entirely On-line.*

Grading: A-F grading only.

MGMT 314 - Leadership and Management

Units: 3

Critical analysis of descriptive and normative theories of formal organization, including a consideration of organization structure, communications, planning, and control. Other topics include the effects of business environment, behavioral science, and globalization on management decisions.

Prerequisites: Completion of GE areas A1, A2 and A3.

Equivalent Quarter Course: MGMT 3600.

Possible Instructional Methods: *Entirely On-ground, Entirely On-line.*

Grading: A-F grading only.

MGMT 316 - Training and Development

Units: 3

Workplace learning is key to the development of employees and a firm's success. Topics include needs assessments, learning theories, instructional design, training methodologies, presentation techniques, and program evaluation. Students will design and present sample training and development programs.

Prerequisites: Junior, senior or post-baccalaureate standing.

Equivalent Quarter Course: MGMT 4618.

Possible Instructional Methods: *Entirely On-ground, Entirely On-line.*

Grading: A-F grading only.

MGMT 318 - Employee Relations and Employment Law

Units: 3

Employee-management relations. Topics include: defining the employment relationship; employment law; regulation and compliance; employee rights; alternative dispute resolution and grievance procedures; collective bargaining and preventative employee relations; and emerging issues in employee relations.

Equivalent Quarter Course: MGMT 3680.

Possible Instructional Methods: *Entirely On-ground, Entirely On-line.*

Grading: A-F grading only.

MGMT 320 - Negotiation and Conflict Management

Units: 3

Negotiation and conflict management are key managerial skills. This course examines a range of conflict settings to develop students' skills in negotiation and conflict resolution. These include conflict mapping, distributive and integrative negotiations, third party intervention and managing cross-cultural conflict.

Prerequisites: Junior, senior or post-baccalaureate standing.

Equivalent Quarter Course: MGMT 4520.

Possible Instructional Methods: *Entirely On-ground, Entirely On-line.*

Grading: A-F grading only.

MGMT 350 - Decision Science

Units: 3 ; G.E./G.R. Area: B6

Problem solving and quantitative reasoning skills for effective decision making. Topics include decision analysis, optimization, simulation and forecasting. Emphasis is on formulating quantitative models to address real world problems and solving them using spreadsheet software.

Prerequisites: Completion of GE Areas A1, A2, A3 and B4 ; MATH 180 and STAT 110.

Equivalent Quarter Course: MGMT 3100.

Possible Instructional Methods: *Entirely On-ground, Entirely On-line.*

Grading: A-F grading only.

G.E./G.R. Area Satisfied: *B6 - Upper Division Science Inquiry and Quantitative Reasoning*

MGMT 362 - Service Management

Units: 3

Interdisciplinary frameworks, theories and research methods used in the design and analysis of contemporary service systems. Topics include service concept and strategy, design of service delivery, service quality, relevant skills, impact of technology, and social impact.

Prerequisites: Completion of GE areas A1, A2 and A3.

Equivalent Quarter Course: MGMT 4625.

Possible Instructional Methods: *Entirely On-ground, Entirely On-line.*

Grading: A-F grading only.

MGMT 364 - Global Supply Chain Management

Units: 3

Concepts and tools necessary to configure and manage supply chains in a global environment. Topics include network design, strategic planning, supply chain coordination, resource allocation, capacity design, transportation management, material handling, and information technology.

Prerequisites: BUS 360.

Equivalent Quarter Course: MGMT 3645.

Possible Instructional Methods: *Entirely On-ground, Entirely On-line.*

Grading: A-F grading only.

MGMT 365 - Enterprise Resource Planning and Control

Units: 3

Concepts and applications of managing available resources, such as material, labor, capacity, and financial capital, in both service and manufacturing organizations. Emphasis on developing practical skills and utilizing modern business software in enterprise resource planning.

Prerequisites: BUS 360.

Equivalent Quarter Course: MGMT 4640.

Possible Instructional Methods: *Entirely On-ground, Entirely On-line.*

Grading: A-F grading only.

MGMT 366 - Logistics Management

Units: 3

Provides a practical, management perspective of logistics. Topics include distribution, transportation, international logistics, inventory control, sustainable logistics practices, key performance indicators, and logistics technology.

Prerequisites: BUS 360.

Possible Instructional Methods: *Entirely On-ground, Entirely On-line.*

Grading: A-F grading only.

MGMT 368 - Quality and Process Improvement

Units: 3

Elements of quality management methods of and techniques in quality assurance, statistical process control, and acceptance sampling. Emphasis on decision-making and applications in quality improvement. Also, development of variable and attribute quality control charts, and reliability measurement and analysis.

Prerequisites: BUS 360.

Equivalent Quarter Course: MGMT 3626.

Possible Instructional Methods: *Entirely On-ground, Entirely On-line.*

Grading: A-F grading only.

MGMT 369 - Supply Management and E-Commerce

Units: 3

Concepts and applications of current advances in managing supply of goods and services, including strategic sourcing, computerized purchasing, online auctions, contract design, enterprise software application, quality control, cost analysis, price negotiation, inventory management, and capital equipment procurement.

Prerequisites: BUS 360.

Equivalent Quarter Course: MGMT 3624.

Possible Instructional Methods: *Entirely On-ground, Entirely On-line.*

Grading: A-F grading only.

MGMT 398 - Internship

Units: 1-3

Introduction to the internship experience; integration of the academic program with career aspirations; emphasis on internship readiness and preparation for professional success.

Prerequisites: Department consent and minimum 2.0 GPA.

Credit Restrictions: No units may be applied to any CBE major or minor.

Equivalent Quarter Course: MGMT 3898.

Repeatability: May be repeated with department consent for a maximum of 6 units.

Possible Instructional Methods: *Entirely On-ground.*

Grading: CR/NC grading only.

MGMT 400 - Seminar on Special Topics in Human Resource Management and Organizational Behavior

Units: 3

In-depth examination of a specific best practice or current issue in Human Resource Management/Organizational Behavior, such as managing diversity, global leadership, leading change and transformation, organizational development, organizational design, high performance management.

Equivalent Quarter Course: MGMT 3612.

Possible Instructional Methods: *Entirely On-ground, Entirely On-line.*

Grading: A-F grading only.

MGMT 402 - Managing the Global Workplace

Units: 3

Challenges faced by HR managers in managing a global workforce, and solutions in the context of management theory and practice. The course focuses on international human resource & cross cultural management.

Prerequisites: MGMT 312 and junior, senior or post-baccalaureate standing.

Equivalent Quarter Course: MGMT 4675.

Possible Instructional Methods: *Entirely On-ground, Entirely On-line.*

Grading: A-F grading only.

MGMT 404 - Staffing and Talent Management

Units: 3

Processes organizations typically follow to recruit and retain employees. Reviews key concepts and current practices for strategic human capital planning, such as staffing and recruitment; performance

management; succession planning; and retention.

Prerequisites: Junior or senior or post-baccalaureate standing.

Equivalent Quarter Course: MGMT 3616.

Possible Instructional Methods: *Entirely On-ground, Entirely On-line.*

Grading: A-F grading only.

MGMT 406 - Compensation and Reward Systems

Units: 3

Theory and practice of compensation. Emphasis on how to design and manage compensation systems to attract, retain, and motivate workers. Representative topics include incentive pay, benefits, deferred compensation, performance evaluation, promotion-based pay systems, wage and hour law.

Prerequisites: Junior or senior or post-baccalaureate standing.

Equivalent Quarter Course: MGMT 4615.

Possible Instructional Methods: *Entirely On-ground, Entirely On-line.*

Grading: A-F grading only.

MGMT 408 - HR Analytics

Units: 3

Application of statistical data analysis methods to analyze HR functions such as selection, compensation, performance management, leadership, and employee engagement. It uses a data-driven, problem-solving approach for the development of effective HR practices.

Prerequisites: MGMT 312, junior or senior or post-baccalaureate standing.

Possible Instructional Methods: *Entirely On-ground, Entirely On-line.*

Grading: A-F grading only.

MGMT 450 - Project Management

Units: 3

Processes, tools and techniques required in managing projects. Topics include project selection and strategic alignment, project scope, time, cost and resource management, risk management, project control.

Prerequisites: MGMT 350.

Equivalent Quarter Course: MGMT 3110.

Possible Instructional Methods: *Entirely On-ground, Entirely On-line.*

Grading: A-F grading only.

MGMT 455 - Supply Chain Data Analytics

Units: 3

Quantitative analysis of practical data-driven decisions in operations and supply chain management.

Emphasis on determining best decisions by using methods and tools of big data analytics and application-based software.

Prerequisites: MGMT 350.

Equivalent Quarter Course: MGMT 3115.

Possible Instructional Methods: *Entirely On-ground, Entirely On-line.*

Grading: A-F grading only.

MGMT 460 - Healthcare Operations Management

Units: 3

Concepts, tools and methodologies to design and manage operational activities in a healthcare system. Topics include operational metrics, quality management, process analysis, supply chain management, healthcare technology, inventory management, and pharmacy operations.

Prerequisites: BUS 360.

Equivalent Quarter Course: MGMT 4660.

Possible Instructional Methods: *Entirely On-ground, Entirely On-line.*

Grading: A-F grading only.

MGMT 465 - Emerging Technologies in Operations

Units: 3

Investigate how emerging technologies affect business operations; analyze how businesses can utilize emerging technologies to improve operations efficiency and effectiveness and to gain competitive advantages.

Prerequisites: BUS 360.

Possible Instructional Methods: *Entirely On-ground, Entirely On-line.*

Grading: A-F grading only.

MGMT 490 - Independent Study

Units: 1-4

Independent study under the supervision a department faculty member.

Prerequisites: Department consent and minimum 2.0 GPA.

Credit Restrictions: No more than 12 units of independent study may be applied in the major department and 8 units in other departments to a baccalaureate degree.

Equivalent Quarter Course: MGMT 4900.

Repeatability: May be repeated for credit, with department consent, for a total of 12 units.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

MGMT 497 - Issues in Management

Units: 3

Readings, discussion, and research on contemporary and/or significant issues in management.

Prerequisites: Junior, senior or post-baccalaureate standing.

Equivalent Quarter Course: MGMT 3999.

Repeatability: May be repeated for credit when content varies, for a maximum of 6 units.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

Management: Graduate

BAN 601 - Technology Fundamentals for Analytics

Units: 3

Technologies for developing analytics applications. Topics include: fundamentals of business programming, sequential file processing, detail and summary reporting, and data validation.

Prerequisites: Post-baccalaureate standing.

Possible Instructional Methods: *Entirely On-ground, Entirely On-line, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F grading only.

BAN 602 - Quantitative Fundamentals for Analytics

Units: 3

Fundamental quantitative methods with software. Topics include: programming for data analysis, computational linear algebra, and quantitative methods.

Strongly Recommended Preparation: College Algebra, Statistics and Object-Oriented Programming.

Prerequisites: Post-baccalaureate standing.

Possible Instructional Methods: *Entirely On-ground, Entirely On-line, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F grading only.

BAN 610 - Database Management and Applications

Units: 3

Data modeling, database design and implementation, database administration, and database applications. Topics include: database design, incorporating business rules into entity-relationship (ER) models, transformation of an ER model into a relational database design, normalization of database tables, and SQL languages.

Prerequisites: Post-baccalaureate standing.

Equivalent Quarter Course: ITM 6271.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

BAN 612 - Data Analytics

Units: 3

Data collection, preparation, visualization, and analysis with software applications. Topics include: web scraping, Application Program Interface (API) data collection, data wrangling, visualization, data type and structure, and computational and quantitative methods.

Strongly Recommended Preparation: College Algebra, Statistics and Object-Oriented Programming.

Prerequisites: BAN 602.

Equivalent Quarter Course: MGMT 6160.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

BAN 620 - Data Mining

Units: 3

Fundamental concepts of data mining and extensive hands-on experience in applying the concepts to real-world applications. Topics include dimension reduction, classification, association analysis, clustering and model evaluation techniques. Business applications of data mining techniques are emphasized.

Prerequisites: BAN 602.

Equivalent Quarter Course: ITM 6285 or MGMT 6285.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

BAN 622 - Data Warehousing and Business Intelligence

Units: 3

Data warehousing and business intelligence concepts, design, implementation, and software tools. Topics include data warehouse architecture, dimensional model design, data integration and visualization, business intelligence reporting and dashboards.

Prerequisites: BAN 610.

Equivalent Quarter Course: ITM 6280.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

BAN 630 - Optimization Methods for Analytics

Units: 3

Determining the best solution among various choices, suggesting decision options, and illustrating the implications of each option. Topics include: optimization methods, queuing models, simulation, and

application- based software.

Prerequisites: Post-baccalaureate standing.

Equivalent Quarter Course: MGMT 6165.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

BAN 632 - Big Data Technology and Applications

Units: 3

Key technologies and applications for big data analytics. Topics include: distributed file systems, big data input/output, streaming technologies, techniques for parallel processing, and big data application development.

Prerequisites: BAN 601.

Equivalent Quarter Course: ITM 6273.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

BAN 660 - Advanced Topics in Big Data

Units: 3

Newest technologies for Big Data analytics. Topics include: new tools, algorithms, and platforms for Big Data storage, processing, analysis, visualization, and application.

Prerequisites: Post-baccalaureate standing.

Repeatability: May be repeated twice for credit for a maximum of 9 units.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

BAN 670 - Advanced Topics in Analytics

Units: 3

Recent development in various topics of analytics, which include, but not limited to, advanced data visualization, machine learning, text mining and web analytics, natural language processing, and industrial applications of data analytics.

Strongly Recommended Preparation: College Algebra, Statistics and Object-Oriented Programming.

Prerequisites: BAN 612.

Repeatability: May be repeated twice for credit for a maximum of 9 units.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

BAN 671 - Data Analytics with R

Units: 3

Focus on applying business analytics techniques using R programming. Emphasis on using R syntax and packages for data manipulation, visualization and advanced analytics in the context of business environment.

Prerequisites: All of: BAN 601, BAN 602, BAN 620.

Possible Instructional Methods: *Entirely On-ground, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F grading only.

BAN 672 - Data Analytics with SAS

Units: 3

Focus on applying business analytics techniques using SAS programming. Emphasis on using SAS syntax and modules for data manipulation, visualization and advanced analytics to solve real world business problems.

Prerequisites: All of: BAN 601, BAN 602, BAN 620.

Possible Instructional Methods: *Entirely On-ground, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F grading only.

BAN 673 - Time Series Analytics

Units: 3

Introduces fundamental concepts and methods of time series analytics. Topics include evaluation of data patterns, moving averages, smoothing models, regression-based forecasting, and ARIMA models. Emphasis is on hands-on experience in applying time series analytics in business.

Prerequisites: BAN 602.

Possible Instructional Methods: *Entirely On-ground, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F grading only.

BAN 674 - Machine Learning for Business Analytics

Units: 3

Covers key topics in machine learning and their applications to business, including but not limited to, supervised and unsupervised learning, regularization, anomaly detection, and recommender systems.

Prerequisites: All of: BAN 601, BAN 602, BAN 620.

Possible Instructional Methods: *Entirely On-ground, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F grading only.

BAN 675 - Text Mining and Social Media Analytics

Units: 3

Covers basic natural language processing techniques, document representation, text categorization, sentiment analysis, topic modeling, text visualization, and social media analytics.

Prerequisites: All of: BAN 601, BAN 602, BAN 620.

Possible Instructional Methods: *Entirely On-ground, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F grading only.

BAN 676 - Deep Learning for Business Applications

Units: 3

Concepts, design and implementation of deep learning models for business analytics. Topics include Deep Neural Networks, Convolutional Neural Networks, Recurrent Neural Networks such as Long Short Term Memory and business value of deep learning technology.

Prerequisites: All of: BAN 601, BAN 602, BAN 620.

Possible Instructional Methods: *Entirely On-ground, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F grading only.

BAN 693 - Business Analytics Capstone Project

Units: 3

This course includes a project to solve a practical problem by applying and integrating the knowledge and skills learned in the Business Analytics degree program. The capstone project will use real business data from an identified organization.

Prerequisites: Department consent.

Co-requisites: BAN 632.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

BUS 601 - Leadership and Communication in Organizations

Units: 3

Leadership and communication skills needed in modern organizations. Problem-solving, diversity and cross-cultural awareness, ethics, and teams within the context of leadership, as well as focusing on the role of persuasive communication in leadership.

Prerequisites: Post-baccalaureate standing.

Equivalent Quarter Course: MKTG 6120 or MGMT 6225.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

BUS 602 - Business Analytics for Managers

Units: 3

Applying business analytics techniques to leverage data in business decision making. Course emphasizes formulating models to address real world problems, implementing models in spreadsheet environment and interpreting modeling results. Topics include descriptive, predictive and perspective analytics.

Prerequisites: Post-baccalaureate standing.

Equivalent Quarter Course: MGMT 6015.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

BUS 603 - Managing Complex Issues in Global Context

Units: 3 ; G.E./G.R. Area: UWSR

Managers face complex cultural, economic, political, technological, and environmental issues emerging in an increasingly dynamic global context. Using lectures, case studies, and projects, this course develops systematic approaches to managing a shifting array of complex issues in a global context.

Prerequisites: Post-baccalaureate standing ; and either CR (credit) in ENGL 300 or ENGL 301 and a score of 7 on the first-tier portfolio; or score of 7 or better on the Writing Skills test; or satisfaction of the graduation writing assessment requirement (GWAR) at any CSU campus including the UWSR at Cal State East Bay. Credit unavailable through challenge. *Note: see Errata chapter for changes*

Equivalent Quarter Course: MGMT 6120.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

G.E./G.R. Area Satisfied: *University Writing Skills Requirement*

BUS 608 - Operations and Supply Chain Management

Units: 3

Managing and controlling processes that produce and deliver goods and services of a company. Topics include operations and supply chain strategy, product/process design and improvement, capacity and constraint management, quality management and control, lean management, and inventory management.

Prerequisites: Post-baccalaureate standing.

Equivalent Quarter Course: MGMT 6220.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

BUS 609 - Negotiation and Conflict Resolution

Units: 3

Develops negotiation and conflict resolution skills needed for managerial and entrepreneurial success. Students learn conflict mapping, distributive and integrative bargaining, alternate dispute resolution, and

cultural differences; to develop effective strategies for negotiating deals and for conflict resolution.

Prerequisites: Post-baccalaureate standing and satisfaction of the University Writing Skills Requirement (UWSR).

Equivalent Quarter Course: MGMT 6520.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

BUS 693 - Strategic Management Capstone (Project)

Units: 3

An integrative capstone experience in which students take a top management perspective to conduct strategic situational analysis and develop a business plan for a strategic initiative that drives competitive advantage. Real world organizational strategies will be emphasized.

Strongly Recommended Preparation: A minimum of 27 units of core and/or concentration courses.

Prerequisites: Department consent and satisfaction of the WST.

Equivalent Quarter Course: MGMT 6800 or ENTR 6800.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

MGMT 610 - Strategic Human Resources Management

Units: 3

Application of theories from multiple disciplines to analyze core topics in strategic human resources management, including recruitment and screening, training, performance evaluation, compensation and benefits, job design, promotions, downsizing, outsourcing, unions, labor law, internal labor markets, and high-commitment HRM.

Prerequisites: Completion of University Writing Skills Requirement (UWSR) and post-baccalaureate standing.

Equivalent Quarter Course: MGMT 6612.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

MGMT 612 - Strategic Compensation and Reward Systems

Units: 3

Design of compensation and benefits systems to attract, retain, and motivate top talent in dynamic organizational environments shaped by market, political, legal, and union constraints. Worker behavior responses to the structure of compensation systems are emphasized.

Prerequisites: Post-baccalaureate standing.

Equivalent Quarter Course: MGMT 6615.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

MGMT 614 - Talent Management

Units: 3

The talent management process organizations typically follow to attract, develop, motivate, and retain productive, engaged employees. It reviews key concepts and current business practices for effective employee recruitment and development, performance management, succession planning, and retention strategies.

Prerequisites: Post-baccalaureate standing.

Equivalent Quarter Course: MGMT 6618.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

MGMT 616 - People Analytics

Units: 3

Data analysis of human resource management issues, such as recruitment, compensation, performance management, leadership, and employee engagement. Topics include systematic collection, analysis, and interpretation of data to enable strategic decision making for HR functions.

Prerequisites: BUS 602 and post-baccalaureate standing.

Equivalent Quarter Course: MGMT 6622.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

MGMT 618 - Human Resources and the Law

Units: 3

HRM decision-making in a complex and changing legal environment, covering key laws that encompass the employment relationship as well as emerging legal issues in HRM. The course focuses on application of legal topics to real-world HRM situations.

Prerequisites: Post-baccalaureate standing.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

MGMT 620 - Leading Teams and Managing Creativity

Units: 3

Development of skills in effectively leading teams and fostering creativity. Explores interpersonal processes, team structure, intra-team relationships, and knowledge sharing as factors influencing team effectiveness; and theoretical conceptualizations of creativity and practical methods for fostering

creativity in individuals and teams.

Prerequisites: Post-baccalaureate standing.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

MGMT 622 - Managing the Global Workplace

Units: 3

Workforce issues faced by global managers and their solutions in the context of management theory and practice. International human resource & cross-cultural management issues in international organizations.

Prerequisites: Post-baccalaureate standing.

Equivalent Quarter Course: MGMT 6675.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

MGMT 624 - Special Topics in Human Resource Management and Organizational Behavior

Units: 3

Current issues in HRM/OB such as managing diversity, global leadership, leading change and transformation, organizational development, organizational design, and high performance management.

Prerequisites: Post-baccalaureate standing.

Equivalent Quarter Course: MGMT 6613.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

MGMT 650 - Global and Sustainable Supply Chains

Units: 3

Develop and manage supply chain performance drivers to improve performance, create value, increase competitiveness for firms. Topics include synthesis of global logistics, operations, purchasing, and distribution into a cohesive strategy, sustainability, and revenue management in supply chain.

Prerequisites: BUS 608.

Equivalent Quarter Course: MGMT 6150.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

MGMT 652 - Service Operations Management

Units: 3

Effective and efficient management of service operations. Topics include service systems design, process

analysis and improvement, facility location and layout, continuous quality improvement, managing queues, and scheduling.

Prerequisites: BUS 608.

Equivalent Quarter Course: MGMT 6141.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

MGMT 654 - Enterprise Planning and Control

Units: 3

Techniques used in planning and scheduling resources with Enterprise Resource Planning (ERP) systems. Topics include demand forecasting, aggregate planning, material and capacity requirements planning, supply chain planning, global sourcing, and customer relationship management.

Prerequisites: BUS 608.

Equivalent Quarter Course: MGMT 6130.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

MGMT 656 - Quality and Lean Management

Units: 3

Quality and lean management, which are integral parts of modern business process development and improvement. Course topics include total quality management, six-sigma quality, lean management processes and tools, reliability management, statistical quality control, and ISO standards.

Prerequisites: BUS 608.

Equivalent Quarter Course: MGMT 6526.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

MGMT 658 - Project Management

Units: 3

Processes, tools and techniques required in managing projects such as product development, construction, information systems and new business. Topics include project scope, schedule, cost and resource management, risk management, managing teams and project control.

Prerequisites: Post-baccalaureate standing.

Equivalent Quarter Course: MGMT 6155.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

MGMT 660 - Healthcare Operations Management

Units: 3

Strategic and tactical decisions of operations management that are particular to the healthcare industry. Topics include healthcare process and capacity management, healthcare supply chains, healthcare technology, pharmacy operations, and patient and provider scheduling.

Prerequisites: BUS 608.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

MGMT 662 - Operations Analytics

Units: 3

Quantitative analysis of data that can be used to make efficient and profitable decisions in various operations settings. The emphasis is on utilizing methods and software of big data analytics in operations management.

Prerequisites: BUS 602.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

MGMT 670 - Strategic Industry and Competitive Analysis

Units: 3

Key concepts, tools, and principles of industry analysis, competitive analysis, and strategy formulation. Students learn to understand industry structure, develop competitive strategies, define firm boundaries, allocate critical resources, and position firms for value creation and capture.

Equivalent Quarter Course: MGMT 6420.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

MGMT 675 - Innovation Strategy

Units: 3

Applying strategic and entrepreneurial skills and processes effectively to manage innovation in firms. It examines the theory and evaluates approaches for developing new ideas for business practices, technologies, products, and industries.

Equivalent Quarter Course: MGMT 6470.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

MGMT 676 - Global Strategy

Units: 3

Integrative study of how multinational firms position themselves and diversify their activities in global markets. Emphasis is on firm strategies that fit in the global competitive context, decisions to enter foreign markets, and how to develop and implement global strategies.

Equivalent Quarter Course: MGMT 6440.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

MGMT 677 - International Field Immersion

Units: 3

Deep explorations of the key factors influencing global business through a field trip overseas. International field immersion offers a mix of site visits and discussions with local business, organization, and government leaders to investigate entrepreneurship, leadership, innovation, and culture.

Prerequisites: Department consent.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

MGMT 678 - Design Thinking for Leaders

Units: 3

In this course, students will creatively and analytically use design and system thinking to more effectively solve problems in any domain. This course develops students' skills to conceive, organize, lead, implement, and evaluate successful design projects.

Strongly Recommended Preparation: All CBE and University proficiencies.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

MGMT 680 - Sustainability Strategy

Units: 3

How businesses develop and implement strategies to promote environmental, social, and economic sustainability. Students examine roles and responsibilities of managers and learn how to apply the tools of strategic management to the challenges and opportunities of sustainability.

Strongly Recommended Preparation: All CBE and University proficiencies.

Equivalent Quarter Course: MGMT 6460.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

MGMT 685 - Non-Market Strategy

Units: 3

Strategies for profit and non-profit organizations to gain an advantage in the political economy. Covers the dynamics among public policy and trade, innovation, entrepreneurship. Topics include investment risks, lobbying, CSR and working with supra-national institutions.

Strongly Recommended Preparation: All CBE and University proficiencies.

Prerequisites: Department consent.

Equivalent Quarter Course: MGMT 6215.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

MGMT 688 - Business Opportunity Consulting Project

Units: 3

Project course building on the lecture courses offered in the Strategy & Innovation MBA Concentration. Students will leave the classroom behind and enter the creative and analytical world of consulting. Students will negotiate and complete a client-facing business design project.

Strongly Recommended Preparation: One elective course from the Strategy & Innovation concentration.

Prerequisites: Department consent.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

MGMT 690 - Independent Study

Units: 1-4

Independent study under the supervision of a member of the graduate faculty.

Prerequisites: Department consent and minimum 3.0 GPA.

Equivalent Quarter Course: MGMT 6900.

Repeatability: May be repeated for credit, with department consent, for a total of 12 units.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

MGMT 697 - Issues in Management

Units: 3

Readings, discussion, and research on contemporary and/or significant issues in Management.

Equivalent Quarter Course: MGMT 6999.

Repeatability: May be repeated once for credit when content varies, for a maximum of 6 units.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

MGMT 698 - Internship

Units: 1-3

Formal advanced work opportunities integrating the academic program with their career aspirations. Integral advanced hands-on experience enhancing education and preparing for professional and personal success.

Prerequisites: Department consent and minimum 3.0 GPA.

Credit Restrictions: No units may be applied to any CBE graduate degree.

Equivalent Quarter Course: MGMT 6898.

Repeatability: May be repeated with department consent for a maximum of 6 units.

Possible Instructional Methods: *Entirely On-ground.*

Grading: CR/NC grading only.

Marine Science

MSC 403 - Marine Ecology

Units: 4

Field-oriented introduction to the interrelationship between marine and estuarine organisms and their environment; emphasis on quantitative data collection and analysis.

Prerequisites: Department consent.

Equivalent Quarter Course: MSC 4103.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

MSC 405 - Marine Science Diving

Units: 3

Skin/SCUBA diving course with pool-training, ten ocean dives. Diving physics, physiology, diving environments, night diving and research diving. Successful completion gives AAUS and MLML scientific diver certification. CERTIFIED SCUBA DIVER (OR EQUIVALENCY), physical examination and ability to pass swimming test required.

Prerequisites: Department consent, junior, senior or post baccalaureate standing and Biological or Marine Science major.

Credit Restrictions: Not for major credit.

Equivalent Quarter Course: MSC 4105.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

MSC 412 - Marine Birds and Mammals

Units: 4

Systematics, morphology, ecology and biology of marine turtles, birds, and mammals. Upper division college vertebrate zoology required.

Strongly Recommended Preparation: MSC 403.

Prerequisites: Department consent.

Equivalent Quarter Course: MSC 4112.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

MSC 413 - Marine Ichthyology

Units: 4

A description of the taxonomy, morphology and ecology of marine fishes. Both field and laboratory work concentrate on the structure, function and habits of marine fishes and the ecological interactions of these fishes with their biotic and abiotic surroundings. College zoology or equivalent required.

Strongly Recommended Preparation: MSC 403.

Prerequisites: Department consent.

Equivalent Quarter Course: MSC 4113.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

MSC 424 - Marine Invertebrate Zoology I

Units: 4

A field-oriented introduction to the structure, systematics, evolution, and life histories of the major and minor marine phyla. College zoology or equivalent required.

Strongly Recommended Preparation: MSC 403.

Prerequisites: Department consent.

Equivalent Quarter Course: MSC 4124.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

MSC 425 - Marine Invertebrate Zoology II

Units: 3

A field-oriented survey of the common marine invertebrates of the major intertidal habitats in and around Monterey Bay. Focus will be on identification and natural history. College zoology required.

Strongly Recommended Preparation: MSC 403, MSC 424.

Prerequisites: Department consent.

Equivalent Quarter Course: MSC 4125.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

MSC 431 - Marine Botany

Units: 4

Introduction to the plants of the sea, with emphasis on the morphology, taxonomy and natural history of seaweeds and seagrasses.

Strongly Recommended Preparation: MSC 403.

Prerequisites: Department consent.

Equivalent Quarter Course: MSC 4131.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

MSC 435 - Physiology of Marine Algae

Units: 4

Understanding the adaptations of marine algae to their environment. Physiological topics will include respiration, enzyme activity, and biochemical composition. Hands-on experience in basic electronic instrumentation, chemical separations, optical measurements, culturing methods and radioisotope techniques.

Prerequisites: All of: MSC 403, MSC 431, MSC 444.

Equivalent Quarter Course: MSC 4135.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

MSC 441 - Geological Oceanography

Units: 4

A study of the structures, physiography, and sediments of the sea bottom and shoreline.

Strongly Recommended Preparation: Undergraduate course in general geology.

Prerequisites: Department consent.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

MSC 442 - Physical Oceanography

Units: 4

An introduction to the nature and causes of various oceanic motions including currents, waves, tides and mixing, and the physical properties of seawater.

Strongly Recommended Preparation: College algebra, college physics and calculus.

Prerequisites: Department consent.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

MSC 443 - Chemical Oceanography

Units: 4

An introduction to the theoretical and practical aspects of the chemistry of the oceans, including major salts, dissolved gases, nutrient ions, carbonate system, transient tracers, and shipboard sampling techniques.

Strongly Recommended Preparation: One year of college chemistry.

Prerequisites: Department consent.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

MSC 444 - Biological Oceanography

Units: 4

The ocean as an ecological system: the complexity of environmental influences on plankton; the transfer of organic matter between trophic levels; and nutrient cycles. Laboratory sessions will include methods in sampling, shipboard techniques, identification of plankton, and current analytical techniques.

Strongly Recommended Preparation: General biology and general chemistry.

Prerequisites: Department consent.

Equivalent Quarter Course: MSC 4144.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

MSC 490 - Independent Study

Units: 1-4

Faculty-directed study of selected problems; open to undergraduate students with adequate preparation. Students may apply no more than 12 units of independent study in the major department and 8 units in other departments toward a baccalaureate degree.

Prerequisites: Department consent and minimum 2.0 GPA.

Equivalent Quarter Course: MSC 4900.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

MSC 497 - Topics in Marine Sciences

Units: 1

The study of a selected area in the marine sciences. The subjects will vary depending on student demand and availability of instructors.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

Marine Science: Graduate

MSC 601 - Library Research Methods in Marine Science

Units: 1

Students will gain an advanced understanding of the nature of scientific information. Assignments provide the framework for using and evaluating a variety of information sources in marine and ocean sciences.

Prerequisites: Department consent and post-baccalaureate standing.

Equivalent Quarter Course: MSC 6201.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

MSC 602 - Oceanographic Instrumentation

Units: 4

Principles of instruments used in oceanographic research, introduction to electronics, and applications of instrument measurements. Emphasis will vary from CTD profilers, current meters, radiometry and chemical measurement.

Prerequisites: Post-baccalaureate standing, MSC 441 and MSC 442.

Equivalent Quarter Course: MSC 6202.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

MSC 604 - Sampling and Experimental Design

Units: 4

Basic design of experiments and field sampling, including random and systemic sampling, subsampling, survey techniques, single and multifactor experiments using randomized, nested, and blocked experimental designs, and data analyses.

Prerequisites: MSC 403 and post-baccalaureate standing.

Equivalent Quarter Course: MSC 6204.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

MSC 606 - Molecular Biological Techniques

Units: 4

An overview of concepts and techniques for the isolation, characterization, and analysis of DNA and RNA, including standard methods (amplification, cloning, and sequencing), as well as selected specialized techniques (analysis of gene expression). Lectures focus on marine science applications.

Prerequisites: Post-baccalaureate standing.

Equivalent Quarter Course: MSC 6206.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

MSC 608 - Scientific Methods

Units: 4

The strengths and limitations of various types of scientific reasoning, methodology, and analysis as they relate to scientific progress. Activities include: class discussions; computer, laboratory, and field experiences; critical thinking and writing skill development. *Lecture Units: 3; Lab Units: 1*

Prerequisites: Post-baccalaureate standing and department consent.

Equivalent Quarter Course: MSC 6208.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

MSC 611 - Ecology of Marine Turtles, Birds and Mammals

Units: 4

Community approach to the ecology of marine turtles, birds, and mammals using experimental and sampling methodology. Field studies will examine the distribution, abundance, trophic ecology, and behavior of birds and mammals in Elkhorn Slough and Monterey Bay. *Lecture Units: 3; Lab Units: 1*

Prerequisites: Post-baccalaureate standing, MSC 403, MSC 412, and department consent.

Equivalent Quarter Course: MSC 6211.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

MSC 612 - Advanced Topics in Marine Vertebrates

Units: 4

Advanced consideration of the ecology, physiology and phylogeny of fishes, birds, reptiles or mammals, emphasizing current literature and research. Topics and emphasis will vary with term and instructor.

Prerequisites: Post-baccalaureate standing and either MSC 412 or MSC 413.

Equivalent Quarter Course: MSC 6212.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

MSC 621 - Advanced Topics in Marine Invertebrates

Units: 4

Advanced considerations of the ecology, physiology and phylogeny of the various invertebrate phyla emphasizing current literature and research. Topics and emphasis will vary from term to term.

Prerequisites: Post-baccalaureate standing and MSC 424.

Equivalent Quarter Course: MSC 6221.

Repeatability: May be repeated for credit for a maximum of 8 units.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

MSC 631 - Biology of Seaweeds

Units: 4

Discussions of marine macroalgal biology with extensive reading of original literature. Ecologically oriented individual research projects involving laboratory culture and field experimentation. *Lecture Units: 3; Lab Units: 1*

Prerequisites: Post-baccalaureate standing and MSC 431.

Equivalent Quarter Course: MSC 6231.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

MSC 633 - Advanced Topics in Marine Ecology

Units: 4

Selected topics and current issues in marine ecology. The subjects will vary depending on student demand and availability of instructors.

Prerequisites: MSC 403.

Equivalent Quarter Course: MSC 6233.

Repeatability: Course may be repeated for credit for a maximum of 8 units when topic varies.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

MSC 634 - Advanced Biological Oceanography

Units: 4

Experimental techniques in biological oceanography with emphasis on problems important in plankton ecology. Course includes lectures, labs, and discussions of current research problems. An individual research project involving the use of one or more modern analytical tools will be required. *Lecture Units: 3; Lab Units: 1*

Prerequisites: Post-baccalaureate standing and MSC 444.

Equivalent Quarter Course: MSC 6234.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

MSC 642 - Plate Tectonics

Units: 3

Historical background, modern theory and geophysical evidence of continental drift sea floor spreading and plate tectonics. Examinations of the impact of the recent revolution in historical geology. Offered alternate fall semesters.

Prerequisites: Post-baccalaureate standing and MSC 441.

Equivalent Quarter Course: MSC 6242.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

MSC 646 - Geology of the Monterey Bay Region

Units: 4

Geology, tectonics and active naturally occurring processes in the Monterey Bay region and in the Monterey Bay National Marine Sanctuary. The geologic and tectonic history of central California, plate tectonic processes, representative stratigraphy and geomorphology of the Monterey Bay region.

Prerequisites: Post-baccalaureate standing and MSC 441.

Equivalent Quarter Course: MSC 6246.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

MSC 648 - Marine Benthic Habitat Mapping Techniques

Units: 4

The collection and interpretation of geophysical data that can be used to characterize marine benthic habitats. Techniques used to identify and characterize marine benthic habitats, including echosounders, multibeam bathymetry and backscatter, sidescan sonar, seismic profiling, and GIS will be reviewed.

Prerequisites: Post-baccalaureate standing and MSC 441.

Equivalent Quarter Course: MSC 6248.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

MSC 651 - Marine Geochemistry

Units: 4

Geochemical processes in the oceans: thermodynamics of low temperature aqueous reactions, weathering, oxidation-reduction and biologically mediated reactions, processes occurring at the sea floor and air-sea interface. Offered as needed.

Prerequisites: Post-baccalaureate standing, MATH 130, MATH 131 and MSC 443.

Equivalent Quarter Course: MSC 6251.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

MSC 661 - Mixing, Estuarine and Sediment Transport

Units: 4

Dynamical processes in estuarine and coastal systems, with an emphasis on flow, friction, sediment transport, mixing and diffusion of mass and biogeochemical constituents (nutrients and oxygen, others). Discussion of recent literature.

Prerequisites: Post-baccalaureate standing and MSC 442.

Equivalent Quarter Course: MSC 6261.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

MSC 663 - Data Analysis Techniques in Marine Science

Units: 4

Introduction to using observational oceanographic data, with hands-on practice in scientific programming for data analysis. Lecture, discussion, and practical experience including the use of existing programs and subroutine libraries. Semester project required. *Lecture Units: 3; Lab Units: 1*

Prerequisites: Post-baccalaureate standing and department consent.

Equivalent Quarter Course: MSC 6263.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

MSC 671 - Population Biology

Units: 3

Principles of the interactions among marine organisms that result in the alteration of population structures. Techniques for assessment and management of populations.

Prerequisites: Post-baccalaureate standing and MSC 403.

Equivalent Quarter Course: MSC 6271.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

MSC 672 - Subtidal Ecology

Units: 4

The ecology of nearshore rocky subtidal populations and communities with emphasis on kelp forests. Review of original literature. Fieldwork with SCUBA including group projects on underwater research techniques and community analysis, and individual research on ecological questions chosen by students. *Lecture Units: 3; Lab Units: 1*

Prerequisites: Post-baccalaureate standing, MSC 403 and department consent.

Equivalent Quarter Course: MSC 6272.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

MSC 674 - Advanced Topics in Oceanography

Units: 4

The study of a selected area of oceanography. The subjects will vary depending on student demand and availability of instructors.

Prerequisites: Post-baccalaureate standing.

Equivalent Quarter Course: MSC 6274.

Repeatability: Course may be repeated for credit for a maximum of 8 units when topic varies.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

MSC 680 - Scientific Writing

Units: 3

Techniques and strategies of scientific writing used for proposals, journal submissions, and abstracts for meetings. Students will develop their writing skills by preparing, editing, and rewriting manuscripts. There is a maximum of 12 students allowed to register for this course.

Prerequisites: Department consent and post-baccalaureate standing.

Equivalent Quarter Course: MSC 6280.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

MSC 681 - Coastal Dynamics

Units: 4

Oceanographic dynamics of coastal environments, with an emphasis on eastern boundary current systems influenced by coastal upwelling. Interactions of physical and geological oceanography and how both affect coastal ecosystem dynamics.

Prerequisites: Post-baccalaureate standing, and either MSC 442 or MSC 441.

Equivalent Quarter Course: MSC 6281.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

MSC 689 - Research in Marine Science

Units: 2

Independent investigations of an advanced character for the graduate student with adequate preparation.

Prerequisites: Department consent and post-baccalaureate standing.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

MSC 690 - Independent Study

Units: 1-4

Independent study under the supervision of a member of the graduate faculty.

Prerequisites: Department consent and minimum 3.0 GPA.

Equivalent Quarter Course: MSC 6900.

Repeatability: May be repeated for credit, with department consent, for a total of 12 units.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

MSC 691 - University Thesis

Units: 4

Development and writing of a formal research paper for submission to the university in the specified format. Supervision by a departmental committee, at least one of whom must be a Cal State East Bay faculty member. Oral defense is required. (See "University Thesis Writing Guide," available online at www.csueastbay.edu/thesiswritingguide.)

Prerequisites: Department consent and M.S. Marine Science major.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

MSC 697 - Graduate Seminar in Marine Science

Units: 2

Seminar topics will change each semester. Each student will be required to give at least one seminar. May be repeated for credit. Offered spring and fall semesters.

Prerequisites: Department consent and post-baccalaureate standing.

Equivalent Quarter Course: MSC 6285.

Repeatability: May be repeated for credit for a maximum of 4 units.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

Marketing

BUS 325 - Marketing Principles

Units: 3

Overview of marketing concepts and practical applications including considerations in designing effective marketing programs. Through a mix of lectures, discussions, and/or projects, students will understand the

scope, the process, and the role of marketing in business firms and non-profit organizations.

Equivalent Quarter Course: MKTG 3401.

Possible Instructional Methods: *Entirely On-ground, Entirely On-line.*

Grading: A-F grading only.

MKTG 305 - Business Communication

Units: 3 ; GE/GR Area: UWSR

Students develop abilities to communicate effectively; write and revise business documents and work to understand communication in business environments and cross-cultural settings; fulfills Writing II for transfer students who have completed an approved transfer program without a second composition course.

(See Errata for changes to this content).

Prerequisites: Junior standing or above; and either CR (credit) in ENGL 300 or ENGL 301 and a score of 7 on the first-tier portfolio; or score of 7 or better on the Writing Skills test; or satisfaction of the graduation writing assessment requirement (GWAR) at any CSU campus including the UWSR at Cal State East Bay. Credit unavailable through challenge.

Equivalent Quarter Course: MKTG 3495.

Possible Instructional Methods: *Entirely On-ground, Entirely On-line.*

Grading: A-F grading only.

G.E./G.R. Area Satisfied: *University Writing Skills Requirement*

MKTG 310 - Marketing Research

Units: 3

Marketing research process. Topics include problem formulation, research design, research instrument development, data collection and analysis, and report writing and presentation. Students implement marketing research techniques through assignments and/or projects.

Equivalent Quarter Course: MKTG 3445.

Possible Instructional Methods: *Entirely On-ground, Entirely On-line.*

Grading: A-F grading only.

MKTG 312 - Marketing Analytics

Units: 3

Marketing analytics metrics and models. Understand how to use data to approach marketing issues analytically. Topics include resource allocation analytics, product analytics, marketing-mix analytics, customer analytics, and digital analytics. Quantitative techniques enforced through case-based learning.

Possible Instructional Methods: *Entirely On-ground, Entirely On-line.*

Grading: A-F grading only.

MKTG 314 - Consumer Behavior

Units: 3

Major concepts, theories, and applications of consumer behavior. Focus on the "why" of marketing- why consumers prefer certain products and services to other alternatives and the techniques that marketers use to understand and influence consumer's needs and wants.

Equivalent Quarter Course: MKTG 4417.

Possible Instructional Methods: *Entirely On-ground, Entirely On-line.*

Grading: A-F grading only.

MKTG 398 - Internship

Units: 1-3

Introduction to the internship experience; integration of the academic program with career aspirations; emphasis on internship readiness and preparation for professional success.

Prerequisites: Department consent and minimum 2.0 GPA.

Credit Restrictions: No units may be applied to any CBE major or minor.

Equivalent Quarter Course: MKTG 3898.

Repeatability: May be repeated with department consent for a maximum of 6 units.

Possible Instructional Methods: *Entirely On-ground.*

Grading: CR/NC grading only.

MKTG 415 - Corporate Communications

Units: 3

Development of organizational image campaigns by identifying corporate culture, corporate image, intra-organizational goals. Determining media strategies, tactics, and tools for lobbying, trade organization relations, press agency, publicity, internal communications, and public opinion research included in the context of social responsibility.

Equivalent Quarter Course: MKTG 4415.

Possible Instructional Methods: *Entirely On-ground, Entirely On-line.*

Grading: A-F grading only.

MKTG 420 - Product, Service, and Brand Management

Units: 3

Product concept evaluation, optimal product design, test marketing, market segmentation, product planning, service delivery, failure, and recovery, service quality, branding elements, brand equity, and strategic branding.

Equivalent Quarter Course: MKTG 3440.

Possible Instructional Methods: *Entirely On-ground, Entirely On-line.*

Grading: A-F grading only.

MKTG 424 - Sales Management

Units: 3

The sales process, the relationship between sales and marketing, sales force structure, customer relationship management, use of technology to improve sales force effectiveness, and issues in recruiting, training, motivating, compensating and retaining salespeople.

Possible Instructional Methods: *Entirely On-ground, Entirely On-line.*

Grading: A-F grading only.

MKTG 425 - Business-to-Business Marketing

Units: 3

Strategy development for marketers whose customers include other businesses, the government, and institutions. It explores the buying behavior of organizations as customers. Other topics include segmentation, product development, distribution, pricing, and personal selling and sales management.

Possible Instructional Methods: *Entirely On-ground, Entirely On-line.*

Grading: A-F grading only.

MKTG 426 - Advertising and Promotion Management

Units: 3

Managing the firm's promotion functions including advertising, personal selling, sales promotions, and public relations. Topics include: defining the market, setting advertising and promotion goals and budgets, developing message strategy and media plan, evaluating campaigns.

Equivalent Quarter Course: MKTG 3410.

Possible Instructional Methods: *Entirely On-ground, Entirely On-line.*

Grading: A-F grading only.

MKTG 427 - Digital Marketing and Social Media

Units: 3

Use of digital and social media in the marketing of goods and services. Topics include: the relevance of emerging digital technologies to marketing activities, the problems and opportunities that digital marketing activities pose for the marketing managers.

Possible Instructional Methods: *Entirely On-ground, Entirely On-line.*

Grading: A-F grading only.

MKTG 430 - International Marketing

Units: 3

International marketing concepts and applications including environmental and other factors that impact

global marketing practices. Through a mix of lectures, cases, and/or projects, students will understand the role of culture in developing an international marketing strategy.

Equivalent Quarter Course: MKTG 4470.

Possible Instructional Methods: *Entirely On-ground, Entirely On-line.*

Grading: A-F grading only.

MKTG 440 - Marketing Strategy

Units: 3

Integrate major themes in core and elective marketing courses. Topics include segmentation, targeting, positioning, differentiation, and other strategic considerations. Focus is on how to create, gain support for, and execute marketing plans that build strong and enduring businesses.

Equivalent Quarter Course: MKTG 4400.

Possible Instructional Methods: *Entirely On-ground, Entirely On-line.*

Grading: A-F grading only.

MKTG 485 - Establishing New Enterprises

Units: 3

In-depth coverage of procedures for setting up new businesses and of problems confronting managers during the critical start-up period. Uses cases, situational analyses, and projects.

Prerequisites: All of: ACCT 215, BUS 325, BUS 330.

Equivalent Quarter Course: ENTR 4485.

Possible Instructional Methods: *Entirely On-ground, Entirely On-line.*

Grading: A-F grading only.

MKTG 487 - Practicum in Small Business Management

Units: 3

Student consultant teams assisting small businesses; responsibilities include reviewing performance; isolating problems; researching solutions; presenting oral analysis to class; preparing written reports for business.

Strongly Recommended Preparation: BUS 340.

Prerequisites: All of: ACCT 215, BUS 325, BUS 330, ECON 380, MGMT 350.

Equivalent Quarter Course: ENTR 4490.

Possible Instructional Methods: *Entirely On-ground, Entirely On-line.*

Grading: A-F grading only.

MKTG 490 - Independent Study

Units: 1-4

Independent study under the supervision a department faculty member.

Prerequisites: Department consent and minimum 2.0 GPA.

Credit Restrictions: No more than 12 units of independent study may be applied in the major department and 8 units in other departments to a baccalaureate degree.

Equivalent Quarter Course: MKTG 4900.

Repeatability: May be repeated for credit, with department consent, for a total of 12 units.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

MKTG 497 - Seminar in Selected Marketing Topics

Units: 3

Selected topics emphasizing the integration of marketing literature with current business practices through seminar discussions and individual field investigations.

Equivalent Quarter Course: MKTG 4450.

Repeatability: May be repeated for credit for a maximum of 6 units when content varies.

Possible Instructional Methods: *Entirely On-ground, Entirely On-line.*

Grading: A-F grading only.

Marketing: Graduate

BUS 607 - Marketing Management

Units: 3

Advanced concepts and analysis with a strategic focus on developing marketing plans and programs. Focus on marketing decisions in a globally competitive environment concerning market segmentation, targeting, and positioning. Covers the core marketing management concepts within a strategic framework.

Prerequisites: Post-baccalaureate standing.

Equivalent Quarter Course: MKTG 6215.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

MKTG 610 - Marketing Research

Units: 3

Provides students with tools to evaluate and undertake marketing research projects. Demonstrates how research applies to marketing strategy, advertising, globalization, and product development. Emphasizes practical experience in planning and implementing marketing research for marketing decision making through assignments and/or projects.

Prerequisites: BUS 607.

Equivalent Quarter Course: MKTG 6401.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

MKTG 612 - Marketing Analytics

Units: 3

Marketing analytics metrics and models. Approach marketing issues analytically; make marketing decisions driven by quantitative evidence. Topics include resource allocation analytics, product analytics, marketing-mix analytics, customer analytics, and digital analytics. Quantitative techniques enforced through hands-on data analysis and case-based learning.

Prerequisites: Post-baccalaureate standing and BUS 607.

Equivalent Quarter Course: MKTG 6402.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

MKTG 614 - Buyer Behavior

Units: 3

Theories, concepts, methods, and empirical findings regarding buyers' decision making processes and choice behavior from buyers, marketers, and public policy makers' perspectives. Lectures, discussion research articles, case analysis, and research project emphasized.

Prerequisites: BUS 607.

Equivalent Quarter Course: MKTG 6410.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

MKTG 620 - Product and Brand Management

Units: 3

Management of the firm's product or service offerings. Key topics include product development, product positioning, estimation of market potential, and profitable brand strategies. Emphasis on development of meaningful criteria for decision making in the area of product and brand management.

Prerequisites: Post-baccalaureate standing and BUS 607.

Equivalent Quarter Course: MKTG 6411.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

MKTG 622 - Pricing Management

Units: 3

Pricing strategies, tactics, methods, laws, treatment of costs, effect of sales promotion, consideration of

competition and customers for pricing. Lectures, discussion of relevant articles, and analyses of cases and pricing problems emphasized.

Prerequisites: BUS 607.

Equivalent Quarter Course: MKTG 6412.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

MKTG 624 - Sales and Distribution Management

Units: 3

Marketing channels used for consumer as well as business-to-business products and services through the study of a textbook, cases, simulation, and/or independent analysis of various businesses along with their distribution channel.

Prerequisites: Post-baccalaureate standing and BUS 607.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

MKTG 626 - Integrated Marketing Communications

Units: 3

Concepts and activities that comprise integrated marketing communication, and provides practice in solving marketing communication challenges. Cultivates students' ability to become strategic decision makers in marketing communications: advertising, public relations, personal selling, sales promotions, and direct marketing.

Prerequisites: BUS 607.

Equivalent Quarter Course: MKTG 6413.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

MKTG 630 - Seminar in International Marketing

Units: 3

Advanced knowledge and managerial skills needed in international marketing. Key topics include marketing concepts, tools, and considerations set in a cultural context. Case studies, lectures, and group/individual projects provide managerial insight and expertise in designing effective global marketing strategies.

Prerequisites: BUS 607.

Equivalent Quarter Course: MKTG 6470.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

MKTG 640 - Seminar in Marketing Strategy

Units: 3

Concepts and tools used to develop strategic plans. Key topics include segmentation, targeting, positioning, differentiation, and other strategic considerations. Through case studies, lectures, simulations, and group projects, students acquire managerial insight and expertise in designing effective strategies.

Prerequisites: BUS 607.

Equivalent Quarter Course: MKTG 6420.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

MKTG 690 - Independent Study

Units: 1-4

Independent study under the supervision of a member of the graduate faculty.

Prerequisites: Department consent and minimum 3.0 GPA.

Equivalent Quarter Course: MKTG 6900.

Repeatability: May be repeated for credit, with department consent, for a total of 12 units.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

MKTG 697 - Seminar in Selected Marketing Topics

Units: 3

Readings, discussion, and research on contemporary and/or significant issues in Marketing. Application of concepts, tools, and techniques associated with a special topic in marketing.

Prerequisites: BUS 607.

Equivalent Quarter Course: MKTG 6450.

Repeatability: May be repeated for credit for a maximum of 6 units when content varies.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

MKTG 698 - Internship

Units: 1-3

Formal advanced work opportunities integrating the academic program with their career aspirations. Integral advanced hands-on experience enhancing education and preparing for professional and personal success.

Prerequisites: Department consent and minimum 3.0 GPA.

Credit Restrictions: No units may be applied to any CBE graduate degree.

Equivalent Quarter Course: MKTG 6898.

Repeatability: May be repeated with department consent for a maximum of 3 units.

Possible Instructional Methods: *Entirely On-ground.*

Grading: CR/NC grading only.

Mathematics

MATH 15 - College Algebra Workshop

Units: 1

This course develops foundational skills in mathematics and quantitative reasoning in support of successful completion of Math 115: College Algebra.

Co-requisites: MATH 115.

Credit Restrictions: Required for students in Category III or IV taking Math 115.

Possible Instructional Methods: *Entirely On-ground.*

Grading: CR/NC grading only.

MATH 18 - Mathematics for the Arts and Humanities Workshop

Units: 1

This course develops foundational skills in mathematics and quantitative reasoning in support of successful completion of Math 118: Mathematics for the Arts and Humanities.

Co-requisites: MATH 118.

Credit Restrictions: Required for students in Category III or IV taking Math 118.

Possible Instructional Methods: *Entirely On-ground.*

Grading: CR/NC grading only.

MATH 115 - College Algebra

Units: 3 ; G.E./G.R. Area: B4

Functions and graphs: polynomials, rational functions, exponential and logarithmic functions.

Co-requisites: MATH 15 required for students in Category III or IV.

Equivalent Quarter Course: MATH 1130.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

G.E./G.R. Area Satisfied: *B4 - Lower Division Mathematics/Quantitative Reasoning*

MATH 118 - Mathematics for the Arts and Humanities

Units: 3 ; G.E./G.R. Area: B4

Explores mathematics as a human endeavor created in political, cultural, philosophical, and artistic contexts. Examines the many commonalities mathematics has with literature, philosophy, art, and music.

Co-requisites: MATH 18 required for students in Category III or IV.

Equivalent Quarter Course: MATH 1110.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

G.E./G.R. Area Satisfied: *B4 - Lower Division Mathematics/Quantitative Reasoning*

MATH 120 - Precalculus

Units: 3 ; G.E./G.R. Area: B4

Trigonometric, polynomial, rational, exponential and logarithmic functions. Real and complex roots of polynomials. Trigonometric equations, and basic identities; mathematical modeling. Linear equations and matrices.

Prerequisites: Satisfactory score of 63 or higher on Mathematics Placement Exam or MATH 115 with grade C- or better.

Credit Restrictions: Not open to students with credit for MATH 125.

Equivalent Quarter Course: MATH 1130 and MATH 1300.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

G.E./G.R. Area Satisfied: *B4 - Lower Division Mathematics/Quantitative Reasoning*

MATH 121 - Precalculus Fundamentals

Units: 2

Provides college algebra fundamentals needed to support success in Math 120: Precalculus. Required for students in Category III or IV taking Math 120.

Co-requisites: MATH 120.

Repeatability: May be repeated for credit for a maximum of 4 units.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

MATH 125 - Precalculus with Algebra

Units: 5 ; G.E./G.R. Area: B4

Fundamentals of college algebra with a focus on functions and graphs. Trigonometric, polynomial, rational, exponential and logarithmic functions. Real and complex roots of polynomials. Trigonometric equations and basic identities. Mathematical modeling. Linear equations and matrices.

Credit Restrictions: Not open for credit to students who have completed MATH 120.

Equivalent Quarter Course: MATH 1130 and MATH 1300.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

G.E./G.R. Area Satisfied: *B4 - Lower Division Mathematics/Quantitative Reasoning*

MATH 130 - Calculus I

Units: 4 ; G.E./G.R. Area: B4

Introduction to limits and limit techniques; derivatives; related rates; optimization and applications; antiderivatives, introduction to integration and the fundamental theorem of calculus.

Prerequisites: One from the following: Satisfactory score of 78 or higher on Mathematics Placement Exam, MATH 120 or MATH 125 (either course with grade C- or better).

Equivalent Quarter Course: Students who have taken MATH 1304 AND MATH 1305 under a recent quarter catalog will receive credit for MATH 130.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

G.E./G.R. Area Satisfied: *B4 - Lower Division Mathematics/Quantitative Reasoning*

MATH 131 - Calculus II

Units: 3

Integration techniques and applications; sequences and series; introduction to differential equations.

Prerequisites: MATH 130 with grade C- or better.

Equivalent Quarter Course: Students who have taken MATH 1305 AND MATH 2304 under a recent quarter catalog will receive credit for MATH 131.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

MATH 180 - Mathematics for Business with Calculus

Units: 3 ; G.E./G.R. Area: B4

Functions and graphs; exponential and logarithmic functions; matrices and systems of equations and inequalities; introduction to differential and integral calculus with applications to business.

Prerequisites: Satisfactory score of 63 or higher on Mathematics Placement Exam or MATH 115 with grade C- or better.

Equivalent Quarter Course: MATH 1810.

Possible Instructional Methods: *Entirely On-ground, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F grading only.

G.E./G.R. Area Satisfied: *B4 - Lower Division Mathematics/Quantitative Reasoning*

MATH 210 - Linear Algebra with Differential Equations

Units: 3

Solving linear systems and introduction to linear algebra. Eigenvalues and eigenvectors. Introduction to differential equations. Solving ordinary differential equations with constant coefficients. Homogeneous and nonhomogeneous equations. Introduction to vectors and functions of several variables.

Prerequisites: MATH 130.

Co-requisites: MATH 131.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

MATH 211 - Discrete Structures

Units: 3

Propositional logic and predicate calculus, set theory, inference, induction, recursion, divide-and-conquer, enumeration, graphs and topology, trees, binary trees and traversals, Boolean algebra, logic gates, asymptotic notation and algorithm analysis, combinatorics, cryptography, discrete probability, computational modeling.

Prerequisites: MATH 130 with grade C- or better.

Equivalent Quarter Course: MATH 2150.

Possible Instructional Methods: *Entirely On-ground, Entirely On-line, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F grading only.

Cross-listed: CS 211.

MATH 225 - Numerical Algorithms and Linear Algebra for Computer Science

Units: 3

Computer arithmetic. Introduction to linear algebra and solving systems of equations. Rootfinding, interpolation, eigenvalues/eigenvectors. Programming techniques.

Prerequisites: CS 101 and MATH 130.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

MATH 230 - Calculus III

Units: 3

Vectors, dot and cross products; equations of lines, planes and surfaces; partial derivatives, directional derivatives and gradient vector; optimization and Lagrange multipliers; multiple integrals; vector fields; Stoke's theorems; applications.

Prerequisites: MATH 131 with grade C- or better.

Equivalent Quarter Course: Students who have taken MATH 2304 AND MATH 2305 under a recent quarter catalog will receive credit for MATH 230.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

MATH 300 - Introduction to Mathematical Proof

Units: 3

Introduction to methods of proof used in advanced mathematics, with topics chosen from logic, set theory, abstract algebra, number theory, and real analysis. Provides a transition from lower division mathematics courses to upper division proof-oriented mathematics courses.

Prerequisites: MATH 131 with grade C- or better.

Co-requisites: MATH 210.

Equivalent Quarter Course: Math 3000.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

MATH 305 - Mathematical Software

Units: 3

The use of mathematical software to explore and visualize advanced concepts in mathematics. This course, along with Introduction to Mathematical Proof, serves as a transition to upper division mathematics.

Prerequisites: MATH 131 with grade C- or better.

Co-requisites: MATH 230.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

MATH 310 - Linear Algebra Theory

Units: 3

Abstract vector spaces, linear transformations, matrices, inner product spaces, eigenvalues and eigenvectors. Emphasis on both theory and application.

Prerequisites: MATH 210, MATH 300 and MATH 305, all with grade C- or better.

Equivalent Quarter Course: MATH 3100.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

MATH 318 - Mathematical Contributions to Modern Society

Units: 3 ; G.E./G.R. Area: B6

Examines the contributions of modern mathematics to the social sciences, arts, and literature. Contemporary developments in math will be explored within their political, cultural, and philosophical contexts.

Prerequisites: Completion of GE areas A1, A2, A3 and B4.

Credit Restrictions: Not for mathematics major or minor credit.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

G.E./G.R. Area Satisfied: B6 - Upper Division Science Inquiry and Quantitative Reasoning

MATH 319 - Mathematics in Art and Architecture

Units: 3 ; G.E./G.R. Area: B6

Patterns, symmetry, structure, shape and beauty - topics at the heart of mathematics. Physical and aesthetic importance of various mathematical constructions including tilings, polyhedra and perspective. Explore the relationship between mathematics and aesthetic and functional structures.

Prerequisites: Completion of GE areas A1, A2, A3 and B4.

Credit Restrictions: Not for mathematics major or minor credit.

Possible Instructional Methods: Entirely On-ground.

Grading: A-F or CR/NC (student choice).

G.E./G.R. Area Satisfied: B6 - Upper Division Science Inquiry and Quantitative Reasoning

MATH 320 - Abstract Algebra I

Units: 3

Groups and subgroups. Normal subgroups and quotient groups. Group homomorphisms and isomorphisms. Introduction to rings and fields.

Prerequisites: MATH 210 with grade C- or better.

Co-requisites: MATH 300.

Equivalent Quarter Course: MATH 3121.

Possible Instructional Methods: Entirely On-ground.

Grading: A-F or CR/NC (student choice).

MATH 321 - Abstract Algebra II

Units: 3

Rings and fields. Quotient rings, ideals and ring homomorphisms. Polynomial rings and roots of polynomials. Field extensions and finite fields.

Prerequisites: MATH 320 with grade C- or better.

Equivalent Quarter Course: MATH 3122.

Possible Instructional Methods: Entirely On-ground.

Grading: A-F or CR/NC (student choice).

MATH 330 - Analysis I

Units: 3

Field properties of the real numbers. A rigorous study of sequences, completeness, limits, continuity, derivatives and Riemann integration.

Co-requisites: MATH 300

Equivalent Quarter Course: MATH 3300.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

MATH 331 - Analysis II

Units: 3

Metric spaces, including topological concepts. Sequences and series of functions. Weierstrass M-test. Connected and compact sets and their continuous images. Differentiability in $\mathbb{R}^n$.

Prerequisites: MATH 330 with grade C- or better.

Equivalent Quarter Course: MATH 3301.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

MATH 340 - Modern Geometry

Units: 3

Analytic and transformational geometry. Axiomatic development of modern geometry using both Euclidean and non-Euclidean models. Properties of circles and polygons, constructions. Additional advanced topics in geometry.

Prerequisites: MATH 300 with grade C- or better.

Equivalent Quarter Course: MATH 3215.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

MATH 360 - Number Theory

Units: 3

Euclid's algorithm, prime numbers, congruences, Fundamental Theorem of Arithmetic, theorems of Fermat and Euler, quadratic residues.

Prerequisites: MATH 210 and MATH 300, both with grade C- or better.

Equivalent Quarter Course: MATH 3600.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

MATH 370 - Numerical Analysis I

Units: 3

Computer storage of real numbers and finite precision arithmetic, errors, root-finding, algorithms for solving linear systems, interpolation. Practical solutions of problems from science, engineering, and mathematics.

Prerequisites: MATH 210, MATH 230 and MATH 305, all with grade C- or better.

Equivalent Quarter Course: MATH 3750.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

MATH 375 - Differential Equations I

Units: 3

Solutions and applications of first order differential equations. Linear n-th order equations with emphasis on equations of 2nd order. Topics include power series solutions, Laplace transforms, and linear systems.

Prerequisites: MATH 131 and MATH 210, both with grade C- or better.

Equivalent Quarter Course: MATH 3331.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

MATH 380 - Linear Programming

Units: 3

Problems of maximizing or minimizing a linear function subject to linear constraints. Topics include problem formulation, solution procedures, duality theory, sensitivity analysis, transportation and assignment problems.

Prerequisites: MATH 210 and MATH 305, both with grade C- or better.

Equivalent Quarter Course: MATH 3841.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

MATH 398 - Internship

Units: 1-3

Introduction to the internship experience; integration of the academic program with career aspirations; emphasis on internship readiness and preparation for professional success.

Prerequisites: Department consent and minimum 2.0 GPA.

Credit Restrictions: No more than 1 unit may be applied to the Mathematics major.

Equivalent Quarter Course: MATH 3898.

Repeatability: May be repeated with department consent for a maximum of 6 units.

Possible Instructional Methods: *Entirely On-ground.*

Grading: CR/NC grading only.

MATH 402 - Mathematics for K-8 Educators I

Units: 4

Number systems. Standard and nonstandard algorithms. Divisibility, prime and composite numbers, GCF, LCM. Ratio, proportion, percent. Patterns and functional relationships. Linear and quadratic equations and inequalities. Factoring and completing the square. Systems of linear equations. Real world applications.

Prerequisites: MMP Category II for math or Completion of GE area B4.

Credit Restrictions: Not for mathematics major or minor credit.

Equivalent Quarter Course: Students who have taken MATH 2011 AND MATH 4014 under a recent quarter catalog will receive credit for MATH 402.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

MATH 403 - Mathematics for K-8 Educators II

Units: 4

Transformational approach to geometry. Congruence, Similarity and Coordinate Geometry. Area, perimeter, volume, surface area. Constructive proofs of geometric properties. Measurement systems. Descriptive statistics; mean, median, mode and range. Survey design; sources of biases. Elementary discrete probability. Dependent and independent events.

Prerequisites: MMP Category II for math or satisfactory completion of GE Area B4.

Credit Restrictions: Not for mathematics major or minor credit.

Equivalent Quarter Course: Students who have taken MATH 4012 AND MATH 4013 under a recent quarter catalog will receive credit for MATH 403.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

MATH 406 - Advanced Study for School Mathematics

Units: 3

Foundations of school mathematics from an advanced standpoint. An in depth study of middle and high school level algebra, geometry, statistics and number theory and its applications, theoretical foundations and extensions.

Prerequisites: MATH 120 with grade C- or better.

Credit Restrictions: Not for mathematics major or minor credit.

Equivalent Quarter Course: MATH 4030.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

MATH 440 - Topics in Geometry

Units: 3

Advanced theoretical and applied topics in geometry. Topics may include differential, algebraic, discrete,

hyperbolic, or projective geometry, convexity, geometric inequalities.

Strongly Recommended Preparation: Completion of 9 units of upper division courses in Mathematics.

Prerequisites: Department consent.

Equivalent Quarter Course: MATH 4215.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

MATH 450 - Combinatorics

Units: 3

Counting techniques, Fibonacci numbers, partitions of integers, generating functions, multinomial coefficients, Stirling numbers, Catalan numbers, Pigeon Hole Principle, Ramseys Theorem, inclusion/exclusion, and a variety of other topics.

Prerequisites: MATH 300 with grade C- or better.

Equivalent Quarter Course: MATH 3151.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

MATH 470 - Numerical Analysis II

Units: 3

Numerical differentiation and integration, introduction to finite difference methods, iterative methods for linear systems, eigenvalue approximation, function approximation, introduction to numerical methods for differential equations. Applications from various disciplines.

Prerequisites: MATH 370 with grade C- or better.

Equivalent Quarter Course: MATH 4750.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

MATH 475 - Differential Equations II

Units: 3

Systems of linear differential equations. Introduction to partial differential equations: the wave equation, the heat equation and Laplaces equation. Superposition principle. Methods of solving partial differential equations including separation of variables, Fourier transform and Laplace transform.

Prerequisites: MATH 375 with grade C- or better.

Equivalent Quarter Course: MATH 4361.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

MATH 490 - Independent Study

Units: 1-4

Independent study under the supervision of a department faculty member.

Prerequisites: Department consent and minimum 2.0 GPA.

Credit Restrictions: No more than 12 units of independent study may be applied in the major department and 8 units in other departments to a baccalaureate degree.

Equivalent Quarter Course: MATH 4900.

Repeatability: May be repeated for credit, with department consent, for a total of 12 units.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

MATH 493 - Senior Seminar

Units: 3

Capstone course in mathematics. Exploration of topics selected to illustrate relationships among various areas of mathematics. Oral presentations and paper required.

Prerequisites: Department consent.

Equivalent Quarter Course: MATH 4901.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

MATH 497 - Topics in Advanced Mathematics

Units: 3

Advanced theoretical and applied topics in mathematics.

Prerequisites: Department consent.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

Mathematics: Graduate

MATH 605 - Teaching Mathematics at the University Level

Units: 1

Theory, methodology, and practical experience in the teaching of mathematics at the university level. Includes discussion of lecturing techniques, analysis of tests and supporting material, preparation and grading of examinations, and related topics. Required of departmental teaching associates.

Prerequisites: Post-baccalaureate standing and Department consent.

Equivalent Quarter Course: MATH 6005.

Repeatability: May be repeated for credit for a maximum of 2 units.

Possible Instructional Methods: *Entirely On-ground.*

Grading: CR/NC grading only.

MATH 610 - Mathematical Modeling

Units: 4

Discrete and continuous mathematical models: introduction to the use of difference and differential equations, probability models, and matrices for solving realistic problems with emphasis on computer simulations.

Prerequisites: MATH 310 and MATH 330.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

MATH 620 - Algebra with Linear Algebra

Units: 4

Advanced study of abstract algebra and linear algebra. Vector spaces and linear transformations. Groups, homomorphisms, quotient groups. Rings, integral domains, fields.

Prerequisites: MATH 310 and MATH 320.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

MATH 621 - Topics in Applied Algebra

Units: 4

Advanced topics in applied algebra and linear algebra such as coding theory, game theory, applied matrix theory, applications of group theory.

Prerequisites: MATH 310 and MATH 320.

Repeatability: May be repeated twice for credit, for a maximum of 12 units.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

MATH 625 - Topics in Mathematical Physics

Units: 4

Mathematical theory and methods with applications to physics. Topics such as classical mechanics, applications of PDEs, general relativity, and quantum mechanics.

Prerequisites: All of: MATH 210, MATH 230, MATH 320.

Repeatability: May be repeated twice for credit, for a maximum of 12 units.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

MATH 630 - Real Analysis

Units: 4

Metric, normed, and inner product spaces, completeness, continuity, connected and compact sets, intermediate and extreme value theorems, differentiation, mean value theorem, Riemann integral, introduction to the Lebesgue integral.

Prerequisites: MATH 310 and MATH 330.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

MATH 635 - Mathematical Logic

Units: 4

First order languages, a Sequent Calculus, rules for formal proofs, The Completeness Theorem, Compactness, Godel's Incompleteness Theorems. Selected topics from model theory, set theory, metamathematics.

Prerequisites: MATH 300.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

MATH 640 - Complex Analysis

Units: 4

Complex numbers, analytic functions, Cauchy-Riemann equations, complex integration, Cauchy's Theorem, Liouville's Theorem, sequences and series, theory of residues, argument principle, conformal mapping, and other topics.

Prerequisites: MATH 330.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

MATH 650 - Combinatorics

Units: 4

Counting techniques, Fibonacci numbers, partitions of integers, generating functions, multinomial coefficients, Stirling numbers, Catalan numbers, Pigeon Hole Principle, Ramsey's Theorem, inclusion/exclusion, Polya's Theorem, other topics such as graph theory.

Prerequisites: MATH 300 or MATH 320.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

MATH 660 - Topology

Units: 4

Topological spaces, continuity, connectedness, compactness, separation axioms, homotopy and the fundamental group, additional advanced topics.

Prerequisites: MATH 330.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

MATH 663 - Topics in Geometry

Units: 4

Advanced topics in geometry such as Riemannian geometry, geometric analysis, conformal geometry, geometric group theory, combinatorial geometry, lattices, crystallographic groups, projective spaces, and algebraic geometry.

Prerequisites: All of: MATH 310, MATH 320, MATH 330.

Repeatability: May be repeated twice for credit, for a maximum of 12 units.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

MATH 665 - Differential Geometry

Units: 4

Local and global theories of curves and surfaces. Parametrization, canonical coordinates, ruled and minimal surfaces, geodesics, change of parametrization, differential functions on surfaces, tangent planes and differentials, isometries, conformal maps.

Prerequisites: MATH 230 and MATH 310.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

MATH 667 - Machine Learning

Units: 4

Introduction to machine learning with an emphasis on the underlying mathematics. Topics such as VC dimension, central limit theorem, gradient descent. Applications such as SVM and neural nets.

Prerequisites: MATH 230 and MATH 310; or M.S. Computer Science major.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

Cross-listed: CS 667.

MATH 670 - Numerical Analysis

Units: 4

Rootfinding in one variable; direct and iterative methods to solve linear systems; finite difference approximations to solve partial differential equations, and additional topics.

Prerequisites: MATH 310 and MATH 330.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

MATH 671 - Topics in Numerical Analysis

Units: 4

Topics in numerical analysis such as approximation theory, numerical linear algebra, eigenvalue algorithms, numerical solutions to nonlinear systems, numerical methods for differential equations.

Prerequisites: MATH 670.

Repeatability: May be repeated for credit for a maximum of 12 units.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

MATH 675 - Differential Equations

Units: 4

Series solutions, solutions about ordinary and regular singular points. Systems of first order linear equations, Laplace transforms, boundary value problems, Fourier series. Applications such as heat conduction and the wave equation. Euler's method, Runge-Kutta, multi-step methods.

Prerequisites: All of: MATH 210, MATH 310, MATH 330.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

MATH 676 - Topics in Differential Equations

Units: 4

Topics selected from the theory of ordinary and partial differential equations, with both linear and nonlinear cases considered.

Prerequisites: MATH 675.

Repeatability: May be repeated for credit for a maximum of 12 units.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

MATH 680 - Optimization

Units: 4

Introduction to Linear Programming, including the Simplex method, duality theory, sensitivity analysis,

and special applications. Nonlinear optimization using Newton's method, plus secant methods to approximate the derivative information. Introduction to constrained optimization problems using Lagrange multipliers.

Prerequisites: MATH 310.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

MATH 681 - Topics in Optimization

Units: 4

Topics in optimization such as integer programming, network algorithms, dynamic programming, game theory, graph theory, quasi-Newton methods for multi-variable unconstrained optimization, constrained optimization with nonlinear constraints, convex optimization, quadratic programming, nonlinear least squares.

Prerequisites: MATH 680.

Repeatability: May be repeated for credit for a maximum of 12 units.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

MATH 685 - Topics in Graduate Mathematics

Units: 4

Advanced theoretical and applied topics in graduate mathematics covering fields of study such as topology, algebraic theory, complex analysis, dynamical systems, number theory.

Prerequisites: Department consent.

Repeatability: May be repeated for credit for a maximum of 12 units.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

MATH 690 - Independent Study

Units: 1-4

Independent study under the supervision of a member of the graduate faculty.

Prerequisites: Department consent and minimum 3.0 GPA.

Equivalent Quarter Course: MATH 6900.

Repeatability: May be repeated for credit, with department consent, for a total of 12 units.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

MATH 692 - Graduate Mathematics Comprehensive Exam Capstone

Units: 2

A synthesis of important areas of mathematics, culminating in comprehensive examinations covering these areas. Topics will include Topology, Real Analysis, Algebra, Complex Variables, Differential Equations, Numerical Analysis, and Linear Programming.

Prerequisites: MATH 620, MATH 630, MATH 670, and two courses from: MATH 640, MATH 660, MATH 675, or MATH 680.

Possible Instructional Methods: *Hybrid (every section of this course may be taught both online and on-ground).*

Grading: CR/NC grading only.

Modern Languages and Literatures

MLL 211 - Multicultural Cinema

Units: 3 ; G.E./G.R. Area: C1

A study and analysis of artistic, political, social, and philosophical issues as represented in films from around the world.

Repeatability: May be repeated for credit for a maximum of 6 units.

Possible Instructional Methods: *Entirely On-ground, Entirely On-line, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F or CR/NC (student choice).

G.E./G.R. Area Satisfied: *C1 - Lower Division Arts*

MLL 212 - Multiculturalism and Social Justice

Units: 3

Studies a variety of cultural productions in literature, art, news, cinema, advertisement and non-U.S. social and political issues from a global perspective.

Repeatability: May be repeated for credit for a maximum of 6 units.

Possible Instructional Methods: *Entirely On-ground, Entirely On-line, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F or CR/NC (student choice).

MLL 311 - Studies in Modern Languages and Literatures in English

Units: 3 ; G.E./G.R. Area: D4

This course is an introduction to literary analysis. Students will be introduced to a variety of texts, genres, and styles of literary analysis.

Prerequisites: Completion of GE areas A1, A2, A3, and B4.

Repeatability: May be repeated for credit for a maximum of 6 units.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

G.E./G.R. Area Satisfied: D4 - Upper Division Social Sciences

MLL 398 - Internship

Units: 1-3

Introduction to the internship experience; integration of the academic program with career aspirations; emphasis on internship readiness and preparation for professional success.

Prerequisites: Department consent and minimum 2.0 GPA.

Credit Restrictions: No more than 3 units may be applied to majors and minors offered by Modern Languages and Literatures.

Equivalent Quarter Course: MLL 3898.

Repeatability: May be repeated with department consent for a maximum of 6 units.

Possible Instructional Methods: *Entirely On-ground.*

Grading: CR/NC grading only.

MLL 490 - Independent Study

Units: 1-4

Independent study under the supervision of a department faculty member.

Prerequisites: Department consent and minimum 2.0 GPA.

Credit Restrictions: No more than 12 units of independent study may be applied in the major department and 8 units in other departments to a baccalaureate degree.

Equivalent Quarter Course: MLL 4900.

Repeatability: May be repeated for credit, with department consent, for a total of 12 units.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

MLL 497 - Issues in Modern World Languages and Literatures

Units: 3

Readings, discussion, and research on contemporary and/or significant issues in modern languages and literatures.

Equivalent Quarter Course: MLL 3999.

Repeatability: May be repeated for credit when content varies, for a maximum of 6 units.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice)

Modern Languages and Literatures: American Sign Language

MLL 131 - Elementary American Sign Language I

Units: 4 ; G.E./G.R. Area: C2

Students will learn conversational language and visual gestural strategies to reinforce ASL fluency. Grammatical principles and functions will be emphasized.

Equivalent Quarter Course: MLL 1901 and MLL 1902.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

G.E./G.R. Area Satisfied: *C2 - Lower Division Humanities*

MLL 132 - Elementary American Sign Language II

Units: 4 ; G.E./G.R. Area: C1

Students will learn conversational language and visual gestural strategies to reinforce ASL fluency. Grammatical principles and functions will be emphasized as well as appropriate cultural behaviors and conversational regulators.

Prerequisites: MLL 131.

Equivalent Quarter Course: MLL 1902 and MLL 1903.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

G.E./G.R. Area Satisfied: *C1 - Lower Division Arts*

MLL 231 - Intermediate American Sign Language I

Units: 4 ; G.E./G.R. Area: C2

First course in the second year ASL sequence. Focuses on appropriate cultural behaviors and conversational regulators in ASL.

Prerequisites: MLL 132.

Equivalent Quarter Course: MLL 2901 and MLL 2902.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

G.E./G.R. Area Satisfied: *C2 - Lower Division Humanities*

MLL 232 - Intermediate American Sign Language II

Units: 4 ; G.E./G.R. Area: D1-3

Second course in the second year ASL sequence. Appropriate cultural behaviors and conversational regulators in ASL will continue to be an important part of the class.

Prerequisites: MLL 231.

Equivalent Quarter Course: MLL 2902 and MLL 2903.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

G.E./G.R. Area Satisfied: *D1-3 - Lower Division Social Sciences*

MLL 331 - Advanced American Sign Language I

Units: 4

Expanded student discourse, advanced ASL structure and vocabulary, role-shifting variations, formal storytelling, text analysis, and formal/informal presentations. Deaf culture aspects will be incorporated into class activities as appropriate.

Prerequisites: MLL 232.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

MLL 332 - Advanced American Sign Language II

Units: 4

Content area will focus on transitioning from communicative competence in discussing concrete subjects to being able to using language in more abstract contexts.

Prerequisites: MLL 331.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

MLL 333 - American Deaf Culture

Units: 3 ; G.E./G.R. Area: C4

Introduces American Deaf Culture, examines the impact of Deaf Culture on the Deaf community and Deaf education. Topics include how Deaf people are viewed, the affect on self concept/self identity, and Deaf Culture's similarities/differences from mainstream American Culture. Class is taught in ASL.

Strongly Recommended Preparation: Completion of Elementary and Intermediate levels of ASL.

Prerequisites: MLL 232; and completion of GE areas A1, A2, A3 and B4.

Equivalent Quarter Course: MLL 3902.

Possible Instructional Methods: *Entirely On-ground, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F or CR/NC (student choice).

G.E./G.R. Area Satisfied: *C4 - Upper Division Arts or Humanities*

MLL 335 - Classifiers in American Sign Language

Units: 3

Linguistic components that deal with American Sign Language (ASL) Classifiers. Identifying different ASL classifiers and appropriate use for certain types of ASL classifiers. Aspects of ASL classifiers such as non-manual signals and storytelling.

Prerequisites: MLL 332.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

MLL 431 - Linguistics in American Sign Language

Units: 3

The linguistics of American Sign Language. Structural rules governing ASL grammar. Phonology, morphology, syntax and semantics of ASL Linguistics.

Prerequisites: MLL 332.

Equivalent Quarter Course: MLL 3903.

Possible Instructional Methods: *Entirely On-ground, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F or CR/NC (student choice).

MLL 435 - Fieldwork in American Sign Language Studies

Units: 3

Expands conversational skills in ASL by placing advanced Sign Language students in agencies and organizations serving the deaf community. *Lecture Units: 1; Supervision Units: 2*

Prerequisites: MLL 335 and MLL 431.

Equivalent Quarter Course: MLL 3904.

Possible Instructional Methods: *Entirely On-ground, Entirely On-line, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F or CR/NC (student choice).

Modern Languages and Literatures: Chinese

MLL 161 - Elementary Mandarin Chinese I

Units: 4 ; G.E./G.R. Area: C2

The first semester of a one-year sequence in elementary Mandarin Chinese. An introduction to the basic skills in speaking, listening, reading and writing. A communicative approach to the acquisition of the language with emphasis on the appreciation of the culture.

Equivalent Quarter Course: MLL 1601 and MLL 1602.

Possible Instructional Methods: *Entirely On-ground, Entirely On-line, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F or CR/NC (student choice).

G.E./G.R. Area Satisfied: *C2 - Lower Division Humanities*

MLL 162 - Elementary Mandarin Chinese II

Units: 4 ; G.E./G.R. Area: C1

The second semester of a one-year course continues training in basic skills of speaking, listening, reading and writing Chinese. A communicative approach to the acquisition of the language with emphasis on the appreciation of the culture.

Prerequisites: MLL 161.

Equivalent Quarter Course: MLL 1602 and MLL 1603.

Possible Instructional Methods: *Entirely On-ground, Entirely On-line, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F or CR/NC (student choice).

G.E./G.R. Area Satisfied: *C1 - Lower Division Arts*

MLL 163 - Intensive Elementary Mandarin Chinese

Units: 4 ; G.E./G.R. Area: C1

Intensive Elementary Chinese uses electronic input to develop four basic skills in speaking, listening, reading, and writing Chinese. Using realistic situations, students will learn pronunciation, vocabulary, grammar, Chinese culture, and input Chinese characters via pinyin-Romanization.

Repeatability: May be repeated for credit for a maximum of 8 units.

Possible Instructional Methods: *Entirely On-ground, Entirely On-line, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F or CR/NC (student choice).

G.E./G.R. Area Satisfied: *C1 - Lower Division Arts*

MLL 261 - Intermediate Mandarin Chinese I

Units: 4 ; G.E./G.R. Area: C2

The first semester of the intermediate course. Increased emphasis on the structure of the language, vocabulary building, conversation, appreciation of Chinese culture, and on training intermediate proficiency in speaking, listening, reading and writing Chinese.

Prerequisites: MLL 162 or MLL 163.

Equivalent Quarter Course: MLL 2601 and MLL 2602.

Possible Instructional Methods: *Entirely On-ground, Entirely On-line, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F or CR/NC (student choice).

G.E./G.R. Area Satisfied: *C2 - Lower Division Humanities*

MLL 262 - Intermediate Mandarin Chinese II

Units: 4

The second semester of the intermediate course. Increased emphasis on the structure of the language, vocabulary building, conversation, appreciation of Chinese culture, and on training intermediate proficiency in speaking, listening, reading and writing Chinese.

Prerequisites: MLL 261.

Equivalent Quarter Course: MLL 2602 and MLL 2603.

Possible Instructional Methods: *Entirely On-ground, Entirely On-line, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F or CR/NC (student choice).

MLL 361 - China Headline News: A Chinese-English Bilingual Study

Units: 4 ; G.E./G.R. Area: D4

A Chinese-English bilingual course that examines news about China. Using a variety of texts and digital resources, this course investigates and compares the language, perspectives, and context of the news media of China and US.

Prerequisites: MLL 262; and completion of GE areas A1, A2, A3, and B4.

Equivalent Quarter Course: MLL 3610.

Repeatability: May be repeated for credit for a maximum of 8 units.

Possible Instructional Methods: *Entirely On-ground, Entirely On-line, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F or CR/NC (student choice).

G.E./G.R. Area Satisfied: *D4 - Upper Division Social Sciences*

MLL 362 - Chinese Folktales and Culture (Bilingual)

Units: 4 ; G.E./G.R. Area: C4

Taught in both Chinese and English, this course surveys genres and narratives of Chinese folklore. It investigates Chinese culture and tradition through folktale narratives with a focus on Chinese festivals. Suitable for students at intermediate level and above.

Prerequisites: MLL 262; and completion of GE areas A1, A2, A3 and B4.

Equivalent Quarter Course: MLL 3601.

Repeatability: May be repeated for credit for a maximum of 8 units.

Possible Instructional Methods: *Entirely On-ground, Entirely On-line, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F or CR/NC (student choice).

G.E./G.R. Area Satisfied: *C4 - Upper Division Arts or Humanities*

MLL 366 - New Chinese Cinema in English Translation

Units: 3 ; G.E./G.R. Area: D4; Social Justice

Analyzes the changing forms and cultural significance of cinematic representations in Greater China since the beginning of New Cinema movements in the 1980s; examines how cinematic movements comment on profound social changes.

Prerequisites: Completion of GE areas A1, A2, A3 and B4.

Equivalent Quarter Course: MLL 3611.

Possible Instructional Methods: *Entirely On-ground, Entirely On-line, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F or CR/NC (student choice).

G.E./G.R. Area Satisfied: *D4 - Upper Division Social Sciences, Overlay - Social Justice*

MLL 462 - Modern Chinese Short Stories in English Translation

Units: 3 ; G.E./G.R. Area: C4

A comprehensive overview of Chinese literature that has shaped modern-day Greater China (mainland, Taiwan, and Hong Kong). Traces Chinese literary movements over the course of the twentieth to the 21st century; a multi-perspective presentation of Chinese cultural diversity.

Prerequisites: Completion of GE areas A1, A2, A3 and B4.

Equivalent Quarter Course: MLL 3612.

Possible Instructional Methods: *Entirely On-ground, Entirely On-line, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F or CR/NC (student choice).

G.E./G.R. Area Satisfied: *C4 - Upper Division Arts or Humanities*

MLL 465 - Chinese Wisdom and Ink-wash Animation in English Translation

Units: 3 ; G.E./G.R. Area: C4

This course is a literary and theoretical study of the three major Chinese philosophical concepts by Lao Tzu, Confucius, and Sun Tzu, which are reflected in the art form of ink-wash animation.

Prerequisites: Completion of GE areas A1, A2, A3 and B4.

Repeatability: May be repeated for credit for a maximum of 6 units.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

G.E./G.R. Area Satisfied: *C4 - Upper Division Arts or Humanities*

Modern Languages and Literatures: French

MLL 121 - Elementary French I

Units: 4 ; G.E./G.R. Area: C2

Introduction to speaking, understanding, reading, and writing French. A communicative approach to the acquisition of the language with emphasis on the appreciation of the culture.

Equivalent Quarter Course: MLL 1101 and MLL 1102.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

G.E./G.R. Area Satisfied: *C2 - Lower Division Humanities*

MLL 122 - Elementary French II

Units: 4 ; G.E./G.R. Area: C1

Introduction to speaking, understanding, reading, and writing French. A communicative approach to the acquisition of the language with emphasis on the appreciation of the culture.

Prerequisites: MLL 121.

Equivalent Quarter Course: MLL 1102 and MLL 1103.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

G.E./G.R. Area Satisfied: *C1 - Lower Division Arts*

MLL 221 - Intermediate French I

Units: 4 ; G.E./G.R. Area: C2

A continuation of MLL 122 , with increased emphasis on the structure of the language, on vocabulary building and conversation, and on the appreciation of the cultures of the French-speaking world.

Prerequisites: MLL 122.

Equivalent Quarter Course: MLL 2101 and MLL 2102.

Possible Instructional Methods: *Entirely On-ground, Entirely On-line, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F or CR/NC (student choice).

G.E./G.R. Area Satisfied: *C2 - Lower Division Humanities*

MLL 222 - Intermediate French II

Units: 4

A continuation of MLL 122 and MLL 221, with increased emphasis on the structure of the language, on vocabulary building and conversation, and on the appreciation of the cultures of the French-speaking world.

Prerequisites: MLL 221.

Equivalent Quarter Course: MLL 2102 and MLL 2103.

Possible Instructional Methods: *Entirely On-ground, Entirely On-line, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F or CR/NC (student choice).

MLL 321 - Cinema for French Conversation

Units: 3 ; G.E./G.R. Area: C4

Use of French and Francophone films as a basis for classroom discussion and for instruction in language proficiencies in listening, speaking, reading, and writing in various contexts and situations.
French/Francophone life, language and culture through the writing of essays.

Prerequisites: MLL 222; and completion of GE areas A1, A2, A3 and B4.

Equivalent Quarter Course: MLL 3101.

Possible Instructional Methods: *Entirely On-ground, Entirely On-line, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F or CR/NC (student choice).

G.E./G.R. Area Satisfied: *C4 - Upper Division Arts or Humanities*

MLL 322 - Cinema for French Composition

Units: 3 ; G.E./G.R. Area: C4

Use of French and Francophone films as a basis for classroom discussion and for instruction in language proficiencies in listening, speaking, reading, and writing in various contexts and situations. Writing of essays at an advanced level.

Prerequisites: MLL 222; and completion of GE areas A1, A2, A3 and B4.

Equivalent Quarter Course: MLL 3102.

Possible Instructional Methods: *Entirely On-ground, Entirely On-line, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F or CR/NC (student choice).

G.E./G.R. Area Satisfied: *C4 - Upper Division Arts or Humanities*

MLL 323 - Francophone Culture and Civilization through Cinema

Units: 3 ; G.E./G.R. Area: C4

French culture through French and Francophone films illustrating artistic, political, social, and philosophical schools, to offer a better understanding of a variety of cultures from Francophone countries around the world and analysis of cultural differences.

Prerequisites: MLL 222; and completion of GE areas A1, A2, A3 and B4.

Equivalent Quarter Course: MLL 3130.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

G.E./G.R. Area Satisfied: *C4 - Upper Division Arts or Humanities*

MLL 324 - French/Francophone Literature in Translation

Units: 3 ; G.E./G.R. Area: C4

An interdisciplinary study of authors and movements in French and Francophone literatures, emphasizing literary, philosophical, historical, and cultural backgrounds.

Prerequisites: Completion of GE areas A1, A2, A3 and B4.

Equivalent Quarter Course: MLL 3119.

Repeatability: May be repeated for credit for a maximum of 6 units.

Possible Instructional Methods: *Entirely On-ground, Entirely On-line, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F or CR/NC (student choice).

G.E./G.R. Area Satisfied: *C4 - Upper Division Arts or Humanities*

MLL 325 - Themes in French/Franchophone Literature

Units: 3 ; G.E./G.R. Area: C4

A study of selected themes in French and Francophone literature, and other cultural productions, emphasizing an author, a genre or movement.

Prerequisites: Completion of GE areas A1, A2, A3 and B4.

Equivalent Quarter Course: MLL 4100.

Repeatability: May be repeated for credit for a maximum of 6 units.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

G.E./G.R. Area Satisfied: *C4 - Upper Division Arts or Humanities*

MLL 326 - Sexuality and Feminism in Francophone Literature and Cinema

Units: 3 ; G.E./G.R. Area: C4

French and Francophone literature and cinema from a feminist perspective in order to reflect on the power of sexuality as both a means of oppression of women and a means of re-appropriation of female identity.

Prerequisites: Completion of GE areas A1, A2, A3 and B4.

Repeatability: May be repeated once for credit for a maximum of 6 units.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

G.E./G.R. Area Satisfied: *C4 - Upper Division Arts or Humanities*

MLL 421 - French-English Translation

Units: 3

Concentration on the various skills needed to translate from French to English. Students will apply those techniques by translating a variety of texts.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

MLL 422 - LGBTQ Francophone Cinema

Units: 3 ; G.E./G.R. Area: C4; Social Justice

This course will focus on the exploration of LGBTQ cultural politics in Franco-phone cinema, and the study of films by members of the LGBTQ community.

Prerequisites: Completion of GE areas A1, A2, A3 and B4.

Repeatability: May be repeated for credit for a maximum of 6 units.

Possible Instructional Methods: *Entirely On-ground, Entirely On-line, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F or CR/NC (student choice).

G.E./G.R. Area Satisfied: *C4 - Upper Division Arts or Humanities, Overlay - Social Justice*

MLL 423 - Survey of Francophone Literature and Cinema

Units: 3

Survey of Francophone literature from the Middle Ages to the present. Survey of Francophone cinema from its inception to the present. Each time the course is offered the content will vary.

Possible Instructional Methods: *Entirely On-ground, Entirely On-line, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F or CR/NC (student choice).

MLL 424 - Marginality in Francophone Literature

Units: 3 ; G.E./G.R. Area: C4

An introduction to contemporary Francophone culture through the prism of Franco-phone rebellious figures. Study of some of the most celebrated artists in the context of literary, cinematographic and musical movements, historical, social, and political events.

Prerequisites: Completion of GE areas A1, A2, A3 and B4.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

G.E./G.R. Area Satisfied: *C4 - Upper Division Arts or Humanities*

MLL 425 - Postcolonial Francophone Rap/Hip-Hop

Units: 3 ; G.E./G.R. Area: C4; Social Justice

Examination of the success of rap and hip hop as outlets to express the social concerns of the various ethnicities of the Francophone world. Concentration on socio-cultural and literary perspectives.

Prerequisites: Completion of GE areas A1, A2, A3 and B4.

Equivalent Quarter Course: MLL 4110.

Repeatability: May be repeated for credit for a maximum of 6 units.

Possible Instructional Methods: *Entirely On-ground, Entirely On-line, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F or CR/NC (student choice).

G.E./G.R. Area Satisfied: *C4 - Upper Division Arts or Humanities, Overlay - Social Justice*

MLL 428 - French for the Professions

Units: 4

French and Francophone professional culture, and all necessary skills such as vocabulary, and syntax, letter and form writing.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

MLL 429 - French for Reading Knowledge

Units: 4

Comparative syntax approach, techniques, vocabulary, and reading materials needed to acquire a reading knowledge of French.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

Modern Languages and Literatures: Japanese

MLL 151 - Elementary Japanese I

Units: 4 ; G.E./G.R. Area: C2

The first semester of a one-year sequence. Develops four basic skills: speaking, listening, reading, and writing (Hiragana, Katakana and Basic Kanji) in modern Japanese. Emphasis on grammatical accuracy, socially appropriate language use, and cultural understanding.

Equivalent Quarter Course: MLL 1801 and MLL 1802.

Possible Instructional Methods: *Entirely On-ground, Entirely On-line, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F or CR/NC (student choice).

G.E./G.R. Area Satisfied: *C2 - Lower Division Humanities*

MLL 152 - Elementary Japanese II

Units: 4 ; G.E./G.R. Area: C1

The second semester of a one-year sequence further develops the learner's ability to speak, listen, read and write Japanese. Student's knowledge of Japanese culture, society and communication skills will be improved; increasing number of Kanji characters will be introduced.

Prerequisites: MLL 151.

Equivalent Quarter Course: MLL 1802 and MLL 1803.

Possible Instructional Methods: *Entirely On-ground, Entirely On-line, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F or CR/NC (student choice).

G.E./G.R. Area Satisfied: *C1 - Lower Division Arts*

MLL 153 - Intensive Elementary Japanese

Units: 4 ; G.E./G.R. Area: C1

This Intensive Elementary Japanese course uses electronic input to develop four basic skills of speaking, listening, reading, and writing Japanese. Using realistic situations, students will learn pronunciation, vocabulary, grammar, Japanese culture, and three types of Japanese characters.

Repeatability: May be repeated for credit for a maximum of 8 units.

Possible Instructional Methods: *Entirely On-ground, Entirely On-line, Hybrid (every section of this course may be*

taught both online and on-ground).

Grading: A-F or CR/NC (student choice).

G.E./G.R. Area Satisfied: C1 - Lower Division Arts

MLL 251 - Intermediate Japanese I

Units: 4 ; G.E./G.R. Area: C2

The first semester of the intermediate course. Increased emphasis on the structure of the language, vocabulary building, conversation, appreciation of Japanese culture, and on training intermediate proficiency in speaking, listening, reading and writing Japanese.

Prerequisites: MLL 152 or MLL 153.

Equivalent Quarter Course: MLL 2801 and MLL 2802.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

G.E./G.R. Area Satisfied: C2 - Lower Division Humanities

MLL 252 - Intermediate Japanese II

Units: 4

The second semester of the intermediate course. Increased emphasis on the structure of the language, vocabulary building, conversation, appreciation of Japanese culture, and on training intermediate proficiency in speaking, listening, reading and writing Japanese.

Prerequisites: MLL 251.

Equivalent Quarter Course: MLL 2802 and MLL 2803.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

MLL 351 - Japan Headline News: A Japanese-English Bilingual Study

Units: 4 ; G.E./G.R. Area: D4

A Japanese-English bilingual course that covers Japanese headline events of the past 5 years. A comparative study of cross-cultural perspectives. Suitable for students of intermediate level and above.

Prerequisites: MLL 252; and completion of GE areas A1, A2, A3, and B4.

Equivalent Quarter Course: MLL 2803.

Repeatability: May be repeated for credit for a maximum of 8 units.

Possible Instructional Methods: *Entirely On-ground, Entirely On-line, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F or CR/NC (student choice).

G.E./G.R. Area Satisfied: D4 - Upper Division Social Sciences

MLL 352 - Japanese Folktales and Culture (Bilingual)

Units: 4 ; G.E./G.R. Area: C4

Taught in both Japanese and English. A survey of Japanese folklore that studies Japanese culture and folk narratives (folklores, legends, myths, and jokes). Focuses on the relationship between animal roles and the livelihood of Japanese people.

Prerequisites: MLL 252; and completion of GE areas A1, A2, A3 and B4.

Equivalent Quarter Course: MLL 2803.

Repeatability: May be repeated for credit for a maximum of 8 units.

Possible Instructional Methods: *Entirely On-ground, Entirely On-line, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F or CR/NC (student choice).

G.E./G.R. Area Satisfied: *C4 - Upper Division Arts or Humanities*

MLL 358 - Experiencing Japanese Culture in English Translation

Units: 3 ; G.E./G.R. Area: D4; Social Justice

Spanning from the Meiji Restoration to the 21st century, this course covers topics such as technology, food, nationalism, anime and manga in the visual arts, and the cultural transformation that took place over the course of the 20th century.

Prerequisites: Completion of GE areas A1, A2, A3 and B4.

Equivalent Quarter Course: MLL 3831.

Possible Instructional Methods: *Entirely On-ground, Entirely On-line, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F or CR/NC (student choice).

G.E./G.R. Area Satisfied: *D4 - Upper Division Social Sciences, Overlay - Social Justice*

MLL 452 - Modern Japanese Short Stories in English Translation

Units: 3 ; G.E./G.R. Area: C4

A comprehensive overview of Japanese literature that has shaped modern-day Japan. Selected stories by prominent writers that portray controversial images of Japan. Course covers the eras of First Experiments, Interwar, Postwar, and the contemporary. All readings are in English.

Prerequisites: Completion of GE areas A1, A2, A3 and B4.

Equivalent Quarter Course: MLL 3812.

Possible Instructional Methods: *Entirely On-ground, Entirely On-line, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F or CR/NC (student choice).

G.E./G.R. Area Satisfied: *C4 - Upper Division Arts or Humanities*

MLL 455 - Japanese Manga and Anime Masterpieces in English Translation

Units: 3 ; G.E./G.R. Area: C4

Manga (comic books or graphic novels) and Anime (animated films) are two of the most universally recognized forms of contemporary Japanese mass culture. This course will examine the historical,

cultural, sociological, psychological, and stylistic dimensions of manga and anime.

Prerequisites: Completion of GE areas A1, A2, A3 and B4.

Repeatability: May be repeated for credit for a maximum of 6 units.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

G.E./G.R. Area Satisfied: *C4 - Upper Division Arts or Humanities*

Modern Languages and Literatures: Spanish

MLL 141 - Elementary Spanish I

Units: 4 ; G.E./G.R. Area: C2

Introduction to speaking, understanding, reading, and writing Spanish. A communicative approach to the acquisition of the language with emphasis on the appreciation of the culture.

Equivalent Quarter Course: MLL 1401 and MLL 1402.

Possible Instructional Methods: *Entirely On-ground, Entirely On-line, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F or CR/NC (student choice).

G.E./G.R. Area Satisfied: *C2 - Lower Division Humanities*

MLL 142 - Elementary Spanish II

Units: 4 ; G.E./G.R. Area: C1

Introduction to speaking, understanding, reading, and writing Spanish. A communicative approach to the acquisition of the language with emphasis on the appreciation of the culture.

Prerequisites: MLL 141.

Equivalent Quarter Course: MLL 1402 and MLL 1403.

Possible Instructional Methods: *Entirely On-ground, Entirely On-line, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F or CR/NC (student choice).

G.E./G.R. Area Satisfied: *C1 - Lower Division Arts*

MLL 146 - Beginning Spanish for Healthcare Professionals

Units: 4

Develops student communicative competence in Spanish language areas relevant to healthcare related fields.

Strongly Recommended Preparation: Prior knowledge of Spanish language.

Prerequisites: MLL 141.

Credit Restrictions: Not for Spanish major credit.

Equivalent Quarter Course: MLL 2407 and MLL 2408.

Possible Instructional Methods: *Entirely On-ground, Entirely On-line, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F or CR/NC (student choice).

MLL 241 - Intermediate Spanish I

Units: 4 ; G.E./G.R. Area: C2

A continuation of MLL 142, with increased emphasis on the structure of the language, on vocabulary building and conversation, and the appreciation of the cultures of Spanish speaking world.

Prerequisites: MLL 142.

Equivalent Quarter Course: MLL 2401 and MLL 2402.

Possible Instructional Methods: *Entirely On-ground, Entirely On-line, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F or CR/NC (student choice).

G.E./G.R. Area Satisfied: C2 - Lower Division Humanities

MLL 242 - Intermediate Spanish II

Units: 4

A continuation of MLL 241, with increased emphasis on the structure of the language, on vocabulary building and conversation, and the appreciation of the cultures of Spanish speaking world.

Prerequisites: MLL 241.

Equivalent Quarter Course: MLL 2402 and MLL 2403.

Possible Instructional Methods: *Entirely On-ground, Entirely On-line, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F or CR/NC (student choice).

MLL 246 - Intermediate Spanish for Healthcare Professionals

Units: 4

This course, for students with prior Spanish speaking ability, will develop student communicative competence in Spanish language areas relevant to healthcare and related fields. Placement test required.

Prerequisites: MLL 142.

Credit Restrictions: Not for Spanish major credit.

Equivalent Quarter Course: MLL 2408 and MLL 2409.

Possible Instructional Methods: *Entirely On-ground, Entirely On-line, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F or CR/NC (student choice).

MLL 341 - Spanish Conversation

Units: 4

A practical application of Spanish to present-day experiences. Designed to develop advanced oral

communication skills. Emphasis on increasing vocabulary, accuracy and grammatical control.

Prerequisites: MLL 343.

Equivalent Quarter Course: MLL 3410.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

MLL 342 - Spanish Conversation for Community Engagement

Units: 4

Develop conversational and written Spanish skills working with the local community. Community Engagement in Spanish may include projects approved by the faculty supervisor, teaching aides in high schools, or interpreting and translating for nonprofit agencies.

Equivalent Quarter Course: MLL 3420.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

MLL 343 - Spanish Composition and Syntax

Units: 4

Written Spanish and formal grammar applied to advanced composition in the language.

Prerequisites: MLL 242.

Equivalent Quarter Course: MLL 3401 or MLL 3402.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

MLL 344 - Spanish Linguistics and Phonetics

Units: 4

An introduction to the history of Spanish language, grammatical systems (Phonology, Morphology, Syntax), and socio-linguistics status of Spanish in the U.S. (*see Errata - Course page for update)

Prerequisites: MLL 242.

Equivalent Quarter Course: MLL 3411 or MLL 3412.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

MLL 345 - Spanish Textual Analysis in a Multicultural Context

Units: 4 ; G.E./G.R. Area: D4

The course will introduce students to textual analysis and production, allowing them to read and write within the context of academic and university discourses. Exposed to texts from diverse traditions both global and local, students will become competent readers and writers.

Prerequisites: MLL 242 and completion of GE areas A1, A2, A3 and B4.

Equivalent Quarter Course: MLL 3400.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

G.E./G.R. Area Satisfied: *D4 - Upper Division Social Sciences*

MLL 447 - Latin American Global and Cultural Studies

Units: 3 ; G.E./G.R. Area: C4

Single author, country, movement, theme or current social issues in Spanish/Latin American literature and culture in a global context. Taught in Spanish, readings in Spanish and English.

Prerequisites: MLL 343 and completion of GE areas A1, A2, A3 and B4.

Equivalent Quarter Course: MLL 4495.

Repeatability: May be repeated for credit for a maximum of 15 units when content changes.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

G.E./G.R. Area Satisfied: *C4 - Upper Division Arts or Humanities*

MLL 448 - Spanish Global and Cultural Studies

Units: 3

Studies in a single author, region, movement, theme or current social issues in Spanish Peninsular literature and culture in a global context. Taught in Spanish and/or English. Readings in Spanish and English.

Prerequisites: MLL 343.

Equivalent Quarter Course: Any one from: MLL 4455, MLL 4459, MLL 4460, MLL 4461.

Repeatability: May be repeated for credit for a maximum of 6 units.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

MLL 449 - Selected Topics in Hispanic Studies

Units: 3

Selected topics in Hispanic Studies beyond regular course offerings. Subjects will vary and will be specified at time of offering.

Prerequisites: Department consent and MLL 343.

Equivalent Quarter Course: MLL 3999.

Repeatability: May be repeated for credit when content varies for a maximum of 9 units.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

Modern Languages and Literatures: Spanish-American Literature and Culture

MLL 441 - Introduction to Spanish American Literature: 1492 to 1900

Units: 3

Survey of Spanish-American Literature from pre-Colombian texts to 1900. Socio-political, aesthetic, philosophical and literary ideas of the conquest and colonial literature, romanticism, realism, and modernism discussed. Taught in Spanish, readings in Spanish and English.

Equivalent Quarter Course: MLL 3461.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

MLL 442 - Introduction to Spanish American Literature: 1900 to the Present

Units: 3 ; G.E./G.R. Area: C4

Socio-political, aesthetic, philosophical and literary ideas examined in contemporary Latin American literature. Prose, poetry and drama of the 20th and 21st century, including latest development in postmodernity, postcoloniality and cultural studies.

Prerequisites: MLL 343; and completion of GE areas A1, A2, A3 and B4.

Equivalent Quarter Course: MLL 3463.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

G.E./G.R. Area Satisfied: *C4 - Upper Division Arts or Humanities*

MLL 445 - Cultures of Spanish America

Units: 3 ; G.E./G.R. Area: C4

A study of Spanish American cultures through history, race and cultural diversity, arts, myths, leaders, and social institutions. Taught in Spanish, readings in Spanish and English.

Prerequisites: MLL 343; and completion of GE areas A1, A2, A3 and B4.

Equivalent Quarter Course: MLL 3495.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

G.E./G.R. Area Satisfied: *C4 - Upper Division Arts or Humanities*

Modern Languages and Literatures: Spanish Peninsular Literature and Culture

MLL 443 - Survey Spanish Literature I: Medieval and Golden Age

Units: 3 ; G.E./G.R. Area: C4

Survey of Spanish literature from the Middle Ages to 1700. Socio-political, aesthetic, philosophical, and literary ideas studied through readings and major works from the Medieval, Renaissance, and Baroque periods. Taught in Spanish, readings in Spanish and English.

Prerequisites: Completion of GE areas A1, A2, A3, and B4.

Equivalent Quarter Course: MLL 4457.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

G.E./G.R. Area Satisfied: *C4 - Upper Division Arts or Humanities*

MLL 444 - Survey Spanish Literature II: 18th Century to Present

Units: 3

Survey of Spanish literature from the 18th century to the present. Socio-political, aesthetic, philosophical and literary ideas studied through selections of major works; neo-classicism, romanticism, naturalism, the Generation of '98, and modern and contemporary authors.

Prerequisites: MLL 343 and completion of GE areas A1, A2 and A3.

Co-requisites: MLL 345.

Equivalent Quarter Course: MLL 4458.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

MLL 446 - Cultures of Spain

Units: 3 ; G.E./G.R. Area: C4

A study of the diverse cultures of Spain through a variety of texts (fictional and non-fictional) and manifestations of popular culture illustrating Spain's philosophical ideas and its artistic, political, social movements. Taught in Spanish for Spanish majors and/or English. Readings in Spanish and English.

Prerequisites: MLL 343; and completion of GE areas A1, A2, A3 and B4.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

G.E./G.R. Area Satisfied: *C4 - Upper Division Arts or Humanities*

Multimedia: Graduate

MM 601 - Seminar in Interactive Art & Design

Units: 3

Advanced reading and discussion of the foundational literature, principles and paradigms associated with the study of media art, culture, and communication. Course covers the history, methods and terminology of media art.

Equivalent Quarter Course: MM 6101.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

MM 602 - Project and Story Development

Units: 3

Small development projects to develop students' potential to succeed as members of a thesis team.

Establishment of research project teams and the development of thesis proposals.

Prerequisites: MM 601.

Equivalent Quarter Course: MM 6860.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

MM 621 - Screen Based Interaction

Units: 3

Study of the process of designing screen based interactive prototypes within the contexts of apps, games, the web. Students use various tools, including simple scripting, to create prototypes and then test and refine them.

Co-requisites: MM 601.

Equivalent Quarter Course: MM 6120.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

MM 622 - Physical Prototyping

Units: 3

Explore interactivity with physical objects. Study of the process of designing interactive prototypes, both autonomous and networked. Students use various tools, including simple scripting, 3D printing and microcontrollers, to create prototypes and then test and refine them.

Prerequisites: MM 621.

Co-requisites: MM 602.

Equivalent Quarter Course: MM 6110.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

MM 630 - Coding for Multimedia

Units: 3

Using a common art and design friendly language like Processing or JavaScript, students will learn both basic scripting and how to use and adapt pre-existing code and libraries to develop and network software

prototypes and mash-ups.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

MM 632 - Interaction Design

Units: 3

Theories and practices of Interaction Design within a broader context of the fields of User Experience Design and of Human Computer Interaction. Students design and develop interactions and experiences with paper models and examine case studies.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

MM 640 - Forum

Units: 1

Advanced practitioners at the intersections of art, science, and technology present and discuss their work in a dynamic and open format with students. Students are actively engaged in a conversation about current trends and paradigms in contemporary media.

Equivalent Quarter Course: MM 6805.

Repeatability: May be repeated for credit for a maximum of 4 units.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

MM 665 - Experiments in Interactivity

Units: 3

This course has a different topic or theme each semester and can be repeated, subject to advisor approval. Experimental studio course in application of technology to interactive experience design. Explores concepts of structure, aesthetics, and content of interactive experience design.

Repeatability: May be repeated for credit for a maximum of 12 units.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

MM 666 - Experiments in Art and Technology

Units: 3

This course has a different topic or theme each semester and can be repeated, subject to advisor approval. Experimental studio course explores the territory at the intersection of the technical, scientific, entertainment and fine arts communities.

Repeatability: May be repeated for credit for a maximum of 12 units.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

MM 667 - Experiments in Storytelling

Units: 3

Explores various advanced-level strategies in storytelling using theory, production, and multimedia techniques and technologies. Determined by the program coordinator and thesis committee, the topics chosen will support the first project a student will complete on his/her own.

Repeatability: May be repeated for credit for a maximum of 12 units.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

MM 680 - Interactive Content Development

Units: 3

Team-based interactive content development and management with work on faculty-derived projects. Students synthesize and apply skills in a production environment, then critique and refine processes to optimize creative productivity

Prerequisites: MM 602.

Co-requisites: MM 682.

Equivalent Quarter Course: MM 6600.

Repeatability: May be repeated for credit for a maximum of 9 units.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

MM 682 - Individual Multimedia Research and Practice

Units: 3

A series of structured and customized individual research and development modules designed to prepare each student for the capstone project. Socially responsible practice and professional standards of sophistication and productivity are emphasized.

Prerequisites: MM 602.

Co-requisites: MM 680.

Equivalent Quarter Course: MM 6880.

Repeatability: May be repeated for credit for a maximum of 6 units.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

MM 690 - Independent Study

Units: 1-3

Independent study under direction of faculty.

Prerequisites: Department consent and minimum 3.0 GPA.

Equivalent Quarter Course: MM 6900.

Repeatability: May be repeated for credit for a maximum of 6 units.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

MM 693 - Interaction Design Capstone Project

Units: 4

Synthesis culminating in a comprehensive team based thesis project under the supervision of a faculty committee. The capstone course is an opportunity for students to demonstrate their comprehensive achievements in interaction design. Students' projects are presented in a public forum.

Prerequisites: MM 680 and MM 682.

Co-requisites: MM 694.

Equivalent Quarter Course: MM 6899.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

MM 694 - Project Documentation

Units: 1

Writing clear, complete, structured and persuasive documentation of multimedia projects for production, publication, promotion and/or grant applications. Professional and effective use of supporting graphics, charts, citation and bibliographies.

Prerequisites: MM 602.

Repeatability: May be repeated for credit for a maximum of 3 units.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

MM 698 - Internship

Units: 1-6

Formal advanced work opportunities integrating the academic program with their career aspirations. Integral advanced hands-on experience enhancing education and preparing for professional and personal success.

Prerequisites: Department consent and minimum 3.0 GPA.

Equivalent Quarter Course: MM 6898.

Repeatability: May be repeated for credit for a maximum of 6 units.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

Music

MUS 281 - Vocal Coaching

Units: 1

Individual vocal coaching in collaborative music making for music majors or minors. Coaching times arranged according to degree recital expectations as outlined in the music major handbook.

Prerequisites: Department consent.

Co-requisites: Minimum of one course from the MUS 261-269 series.

Equivalent Quarter Course: MUS 2601.

Repeatability: May be repeated for credit for a maximum of 4 units.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

MUS 282 - Instrumental Coaching

Units: 1

Individual instrumental coaching in collaborative music making for music majors or minors. Coaching times arranged according to degree recital expectations as outlined in the music major handbook.

Prerequisites: Department consent.

Co-requisites: Minimum of one course from the MUS 261-269 series.

Equivalent Quarter Course: MUS 2602.

Repeatability: May be repeated for credit for a maximum of 4 units.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

MUS 302 - What to Listen for in Music

Units: 3 ; G.E./G.R. Area: C4

Development of a greater appreciation and enjoyment of music through study of selected works. Study of musical elements to develop critical listening skills applicable to all styles of music. Previous musical training not necessary. Field trips may be required.

Prerequisites: Completion of GE areas A1, A2, A3 and B4.

Equivalent Quarter Course: MUS 3002.

Possible Instructional Methods: *Entirely On-ground, Entirely On-line.*

Grading: A-F grading only.

G.E./G.R. Area Satisfied: *C4 - Upper Division Arts or Humanities*

MUS 398 - Internship

Units: 1-3

Introduction to the internship experience; integration of the academic program with career aspirations; emphasis on internship readiness and preparation for professional success.

Prerequisites: Department consent and minimum 2.0 GPA.

Credit Restrictions: No units may be applied to the Music major; no more than 3 units may be applied to the Music minor.

Equivalent Quarter Course: MUS 3898.

Repeatability: May be repeated with department consent for a maximum of 6 units.

Possible Instructional Methods: *Entirely On-ground.*

Grading: CR/NC grading only.

MUS 480 - Recital Class - Senior

Units: 1

Preparation and performance of a senior musical recital. Capstone experience for applied music instruction.

Prerequisites: Minimum of one course from the MUS 461-469 series.

Co-requisites: Minimum of one course from the MUS 461-469 series.

Equivalent Quarter Course: MUS 4609.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

MUS 490 - Independent Study

Units: 1-4

Independent study under the supervision a department faculty member.

Prerequisites: Department consent and minimum 2.0 GPA.

Credit Restrictions: No more than 12 units of independent study may be applied in the major department and 8 units in other departments to a baccalaureate degree.

Equivalent Quarter Course: MUS 4900.

Repeatability: May be repeated for credit, with department consent, for a total of 12 units.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

Music: Applied Study (LD)

MUS 261A - Applied Study: Piano

Units: 1

Individual instruction for music majors or minors at the Lower Division performance level. Students demonstrate progress before a faculty jury at the end of each semester. A failed jury results in a failing grade for the course. Audition required.

Co-requisites: Minimum of one course from the MUS 351-355 series.

Equivalent Quarter Course: MUS 1610 and MUS 2610

Repeatability: May be repeated for credit for a maximum of 4 units.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

MUS 261B - Applied Study: Harpsichord

Units: 1

Individual instruction for music majors or minors at the Lower Division performance level. Students demonstrate progress before a faculty jury at the end of each semester. A failed jury results in a failing grade for the course. Audition required.

Co-requisites: Minimum of one course from the MUS 351-355 series.

Equivalent Quarter Course: MUS 1612 and MUS 2612

Repeatability: May be repeated for credit for a maximum of 4 units.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

MUS 261C - Applied Study: Organ

Units: 1

Individual instruction for music majors or minors at the Lower Division performance level. Students demonstrate progress before a faculty jury at the end of each semester. A failed jury results in a failing grade for the course. Audition required.

Co-requisites: Minimum of one course from the MUS 351-355 series.

Equivalent Quarter Course: MUS 1611 and MUS 2611.

Repeatability: May be repeated for credit for a maximum of 4 units.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

MUS 262 - Applied Study: Voice

Units: 1

Individual instruction for music majors or minors at the Lower Division performance level. Students demonstrate progress before a faculty jury at the end of each semester. A failed jury results in a failing grade for the course. Audition required.

Co-requisites: Minimum of one course from the MUS 351-355 series.

Equivalent Quarter Course: MUS 1620 and MUS 2620.

Repeatability: May be repeated for credit for a maximum of 4 units.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

MUS 263A - Applied Study: Violin

Units: 1

Individual instruction for music majors or minors at the Lower Division performance level. Students demonstrate progress before a faculty jury at the end of each semester. A failed jury results in a failing grade for the course. Audition required.

Co-requisites: Minimum of one course from the MUS 351-355 series.

Equivalent Quarter Course: MUS 1630 and MUS 2630

Repeatability: May be repeated for credit for a maximum of 4 units.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

MUS 263B - Applied Study: Viola

Units: 1

Individual instruction for music majors or minors at the Lower Division performance level. Students demonstrate progress before a faculty jury at the end of each semester. A failed jury results in a failing grade for the course. Audition required.

Co-requisites: Minimum of one course from the MUS 351-355 series.

Equivalent Quarter Course: MUS 1631 and MUS 2631.

Repeatability: May be repeated for credit for a maximum of 4 units.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

MUS 263C - Applied Study: Cello

Units: 1

Individual instruction for music majors or minors at the Lower Division performance level. Students demonstrate progress before a faculty jury at the end of each semester. A failed jury results in a failing grade for the course. Audition required.

Co-requisites: Minimum of one course from the MUS 351-355 series.

Equivalent Quarter Course: MUS 1632 and MUS 2632.

Repeatability: May be repeated for credit for a maximum of 4 units.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

MUS 263D - Applied Study: Double Bass

Units: 1

Individual instruction for music majors or minors at the Lower Division performance level. Students demonstrate progress before a faculty jury at the end of each semester. A failed jury results in a failing grade for the course. Audition required.

Co-requisites: Minimum of one course from the MUS 351-355 series.

Equivalent Quarter Course: MUS 1633 and MUS 2633.

Repeatability: May be repeated for credit for a maximum of 4 units.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

MUS 263E - Applied Study: Classic'l Guitar

Units: 1

Individual instruction for music majors or minors at the Lower Division performance level. Students demonstrate progress before a faculty jury at the end of each semester. A failed jury results in a failing grade for the course. Audition required.

Co-requisites: Minimum of one course from the MUS 351-355 series.

Equivalent Quarter Course: MUS 1635 or MUS 2635.

Repeatability: May be repeated for credit for a maximum of 4 units.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

MUS 263F - Applied Study: Harp

Units: 1

Individual instruction for music majors or minors at the Lower Division performance level. Students demonstrate progress before a faculty jury at the end of each semester. A failed jury results in a failing grade for the course. Audition required.

Co-requisites: Minimum of one course from the MUS 351-355 series.

Equivalent Quarter Course: MUS 1634 and MUS 2634.

Repeatability: May be repeated for credit for a maximum of 4 units.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

MUS 264A - Applied Study: Flute

Units: 1

Individual instruction for music majors or minors at the Lower Division performance level. Students demonstrate progress before a faculty jury at the end of each semester. A failed jury results in a failing grade for the course.

Co-requisites: Minimum of one course from the MUS 351-355 series.

Equivalent Quarter Course: MUS 1640 and MUS 2640.

Repeatability: May be repeated for credit for a maximum of 4 units.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

MUS 264B - Applied Study: Clarinet

Units: 1

Individual instruction for music majors or minors at the Lower Division performance level. Students demonstrate progress before a faculty jury at the end of each semester. A failed jury results in a failing grade for the course.

Co-requisites: Minimum of one course from the MUS 351-355 series.

Equivalent Quarter Course: MUS 1642 and MUS 2642.

Repeatability: May be repeated for credit for a maximum of 4 units.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

MUS 264C - Applied Study: Saxophone

Units: 1

Individual instruction for music majors or minors at the Lower Division performance level. Students demonstrate progress before a faculty jury at the end of each semester. A failed jury results in a failing grade for the course.

Co-requisites: Minimum of one course from the MUS 351-355 series.

Equivalent Quarter Course: MUS 1644 and MUS 2644.

Repeatability: May be repeated for credit for a maximum of 4 units.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

MUS 264D - Applied Study: Oboe

Units: 1

Individual instruction for music majors or minors at the Lower Division performance level. Students demonstrate progress before a faculty jury at the end of each semester. A failed jury results in a failing grade for the course.

Co-requisites: Minimum of one course from the MUS 351-355 series.

Equivalent Quarter Course: MUS 1641 and MUS 2641.

Repeatability: May be repeated for credit for a maximum of 4 units.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

MUS 264E - Applied Study: Bassoon

Units: 1

Individual instruction for music majors or minors at the Lower Division performance level. Students demonstrate progress before a faculty jury at the end of each semester. A failed jury results in a failing grade for the course.

Co-requisites: Minimum of one course from the MUS 351-355 series.

Equivalent Quarter Course: MUS 1643 and MUS 2643.

Repeatability: May be repeated for credit for a maximum of 4 units.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

MUS 265A - Applied Study: Trumpet

Units: 1

Individual instruction for music majors or minors at the Lower Division performance level. Students demonstrate progress before a faculty jury at the end of each semester. A failed jury results in a failing grade for the course.

Co-requisites: Minimum of one course from the MUS 351-355 series.

Equivalent Quarter Course: MUS 1650 and MUS 2650.

Repeatability: May be repeated for credit for a maximum of 4 units.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

MUS 265B - Applied Study: French Horn

Units: 1

Individual instruction for music majors or minors at the Lower Division performance level. Students demonstrate progress before a faculty jury at the end of each semester. A failed jury results in a failing grade for the course.

Co-requisites: Minimum of one course from the MUS 351-355 series.

Equivalent Quarter Course: MUS 1651 and MUS 2651.

Repeatability: May be repeated for credit for a maximum of 4 units.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

MUS 265C - Applied Study: Trombone

Units: 1

Individual instruction for music majors or minors at the Lower Division performance level. Students demonstrate progress before a faculty jury at the end of each semester. A failed jury results in a failing grade for the course.

Co-requisites: Minimum of one course from the MUS 351-355 series.

Equivalent Quarter Course: MUS 1652 and MUS 2652.

Repeatability: May be repeated for credit for a maximum of 4 units.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

MUS 265D - Applied Study: Euphonium

Units: 1

Individual instruction for music majors or minors at the Lower Division performance level. Students demonstrate progress before a faculty jury at the end of each semester. A failed jury results in a failing grade for the course.

Co-requisites: Minimum of one course from the MUS 351-355 series.

Equivalent Quarter Course: MUS 1653 and MUS 2653.

Repeatability: May be repeated for credit for a maximum of 4 units.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

MUS 265E - Applied Study: Tuba

Units: 1

Individual instruction for music majors or minors at the Lower Division performance level. Students demonstrate progress before a faculty jury at the end of each semester. A failed jury results in a failing grade for the course.

Co-requisites: Minimum of one course from the MUS 351-355 series.

Equivalent Quarter Course: MUS 1654 and MUS 2654.

Repeatability: May be repeated for credit for a maximum of 4 units.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

MUS 266 - Applied Study: Percussion

Units: 1

Individual instruction for music majors or minors at the Lower Division performance level. Students demonstrate progress before a faculty jury at the end of each semester. A failed jury results in a failing grade for the course.

Co-requisites: Minimum of one course from the MUS 351-355 series.

Equivalent Quarter Course: MUS 1660 and MUS 2660.

Repeatability: May be repeated for credit for a maximum of 4 units.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

MUS 267A - Applied Study: Composition

Units: 1

Individual instruction for music majors or minors at the Lower Division performance level. Students demonstrate progress before a faculty jury at the end of each semester. A failed jury results in a failing grade for the course.

Prerequisites: Minimum of two units from the MUS 261-269 series.
Co-requisites: Minimum of one course from the MUS 351-355 series.
Equivalent Quarter Course: MUS 1670 and MUS 2670.
Repeatability: May be repeated for credit for a maximum of 4 units.
Possible Instructional Methods: *Entirely On-ground.*
Grading: A-F grading only.

MUS 267B - Applied Study: Interactive and Media Composition

Units: 1

Individual instruction for music majors or minors at the Lower Division performance level. Students demonstrate progress before a faculty jury at the end of each semester. A failed jury results in a failing grade for the course. Audition and Portfolio Required.

Prerequisites: Minimum of two units from the MUS 261-269 series.
Co-requisites: Minimum of one course from the MUS 351-355 series.
Equivalent Quarter Course: MUS 1685 and MUS 2685.
Repeatability: May be repeated for credit for a maximum of 4 units.
Possible Instructional Methods: *Entirely On-ground.*
Grading: A-F grading only.

MUS 267C - Applied Study: Jazz Composition

Units: 1

Individual instruction for music majors or minors at the Lower Division performance level. Students demonstrate progress before a faculty jury at the end of each semester. A failed jury results in a failing grade for the course. Audition and Portfolio Required.

Prerequisites: Minimum of two units from the MUS 261-269 series.
Co-requisites: Minimum of one course from the MUS 351-355 series.
Equivalent Quarter Course: MUS 1690 and MUS 2690.
Repeatability: May be repeated for credit for a maximum of 4 units.
Possible Instructional Methods: *Entirely On-ground.*
Grading: A-F grading only.

MUS 268 - Applied Study: Conducting

Units: 1

Individual instruction for music majors or minors at the Lower Division performance level. Students demonstrate progress before a faculty jury at the end of each semester. A failed jury results in a failing grade for the course. Audition required.

Co-requisites: Minimum of one course from the MUS 351-355 series.
Equivalent Quarter Course: MUS 1680 and MUS 2680.

Repeatability: May be repeated for credit for a maximum of 4 units.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

MUS 269A - Applied Study: Jazz Trumpet

Units: 1

Individual instruction for music majors or minors at the Lower Division performance level. Students demonstrate progress before a faculty jury at the end of each semester. A failed jury results in a failing grade for the course. Audition required.

Co-requisites: Minimum of one course from the MUS 351-355 series.

Equivalent Quarter Course: MUS 1696 and MUS 2696.

Repeatability: May be repeated for credit for a maximum of 4 units.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

MUS 269B - Applied Study: Jazz Trombone

Units: 1

Individual instruction for music majors or minors at the Lower Division performance level. Students demonstrate progress before a faculty jury at the end of each semester. A failed jury results in a failing grade for the course. Audition required.

Co-requisites: Minimum of one course from the MUS 351-355 series.

Equivalent Quarter Course: MUS 1697 and MUS 2697.

Repeatability: May be repeated for credit for a maximum of 4 units.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

MUS 269C - Applied Study: Jazz Saxophone

Units: 1

Individual instruction for music majors or minors at the Lower Division performance level. Students demonstrate progress before a faculty jury at the end of each semester. A failed jury results in a failing grade for the course. Audition required.

Co-requisites: Minimum of one course from the MUS 351-355 series.

Equivalent Quarter Course: MUS 1695 and MUS 2695.

Repeatability: May be repeated for credit for a maximum of 4 units.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

MUS 269D - Applied Study: Jazz Guitar

Units: 1

Individual instruction for music majors or minors at the Lower Division performance level. Students demonstrate progress before a faculty jury at the end of each semester. A failed jury results in a failing grade for the course. Audition required.

Co-requisites: Minimum of one course from the MUS 351-355 series.

Equivalent Quarter Course: MUS 1692 and MUS 2692.

Repeatability: May be repeated for credit for a maximum of 4 units.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

MUS 269E - Applied Study: Jazz Bass

Units: 1

Individual instruction for music majors or minors at the Lower Division performance level. Students demonstrate progress before a faculty jury at the end of each semester. A failed jury results in a failing grade for the course. Audition required.

Co-requisites: Minimum of one course from the MUS 351-355 series.

Equivalent Quarter Course: MUS 1693 and MUS 2693.

Repeatability: May be repeated for credit for a maximum of 4 units.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

MUS 269F - Applied Study: Jazz Drums and Percussion

Units: 1

Individual instruction for music majors or minors at the Lower Division performance level. Students demonstrate progress before a faculty jury at the end of each semester. A failed jury results in a failing grade for the course. Audition required.

Co-requisites: Minimum of one course from the MUS 351-355 series.

Equivalent Quarter Course: MUS 1694 and MUS 2694.

Repeatability: May be repeated for credit for a maximum of 4 units.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

Music: Applied Study (UD)

MUS 461A - Applied Study: Piano

Units: 1

Individual instruction for music majors or minors at the Upper Division performance level. Students demonstrate progress before a faculty jury at the end of each semester. A failed jury results in a failing grade for the course. Audition required.

Prerequisites: MUS 261A.

Co-requisites: Minimum of one course from the MUS 351-355 series.

Equivalent Quarter Course: MUS 3610 and MUS 4610.

Repeatability: May be repeated for credit for a maximum of 4 units.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

MUS 461B - Applied Study: Harpsichord

Units: 1

Individual instruction for music majors or minors at the Upper Division performance level. Students demonstrate progress before a faculty jury at the end of each semester. A failed jury results in a failing grade for the course. Audition required.

Prerequisites: MUS 261B.

Co-requisites: Minimum of one course from the MUS 351-355 series.

Equivalent Quarter Course: MUS 3612 and MUS 4612.

Repeatability: May be repeated for credit for a maximum of 4 units.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

MUS 461C - Applied Study: Organ

Units: 1

Individual instruction for music majors or minors at the Upper Division performance level. Students demonstrate progress before a faculty jury at the end of each semester. A failed jury results in a failing grade for the course. Audition required.

Prerequisites: MUS 261C.

Co-requisites: Minimum of one course from the MUS 351-355 series.

Equivalent Quarter Course: MUS 3611 and MUS 4611.

Repeatability: May be repeated for credit for a maximum of 4 units.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

MUS 462 - Applied Study: Voice

Units: 1

Individual instruction for music majors or minors at the Upper Division performance level. Students demonstrate progress before a faculty jury at the end of each semester. A failed jury results in a failing grade for the course. Audition required.

Prerequisites: MUS 262.

Co-requisites: Minimum of one course from the MUS 351-355 series.

Equivalent Quarter Course: MUS 3620 and MUS 4620.

Repeatability: May be repeated for credit for a maximum of 4 units.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

MUS 463A - Applied Study: Violin

Units: 1

Individual instruction for music majors or minors at the Upper Division performance level. Students demonstrate progress before a faculty jury at the end of each semester. A failed jury results in a failing grade for the course. Audition required.

Prerequisites: MUS 263A.

Co-requisites: Minimum of one course from the MUS 351-355 series.

Equivalent Quarter Course: MUS 3630 and MUS 4630.

Repeatability: May be repeated for credit for a maximum of 4 units.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

MUS 463B - Applied Study: Viola

Units: 1

Individual instruction for music majors or minors at the Upper Division performance level. Students demonstrate progress before a faculty jury at the end of each semester. A failed jury results in a failing grade for the course. Audition required.

Prerequisites: MUS 263B.

Co-requisites: Minimum of one course from the MUS 351-355 series.

Equivalent Quarter Course: MUS 3631 and MUS 4631.

Repeatability: May be repeated for credit for a maximum of 4 units.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

MUS 463C - Applied Study: Cello

Units: 1

Individual instruction for music majors or minors at the Upper Division performance level. Students demonstrate progress before a faculty jury at the end of each semester. A failed jury results in a failing grade for the course. Audition required.

Prerequisites: MUS 263C.

Co-requisites: Minimum of one course from the MUS 351-355 series.

Equivalent Quarter Course: MUS 3632 and MUS 4632.

Repeatability: May be repeated for credit for a maximum of 4 units.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

MUS 463D - Applied Study: Double Bass

Units: 1

Individual instruction for music majors or minors at the Upper Division performance level. Students demonstrate progress before a faculty jury at the end of each semester. A failed jury results in a failing grade for the course. Audition required.

Prerequisites: MUS 263D.

Co-requisites: Minimum of one course from the MUS 351-355 series.

Equivalent Quarter Course: MUS 3633 and MUS 4633.

Repeatability: May be repeated for credit for a maximum of 4 units.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

MUS 463E - Applied Study: Classical Guitar

Units: 1

Individual instruction for music majors or minors at the Upper Division performance level. Students demonstrate progress before a faculty jury at the end of each semester. A failed jury results in a failing grade for the course. Audition required.

Prerequisites: MUS 263E.

Co-requisites: Minimum of one course from the MUS 351-355 series.

Equivalent Quarter Course: MUS 3635 and MUS 4635.

Repeatability: May be repeated for credit for a maximum of 4 units.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

MUS 463F - Applied Study: Harp

Units: 1

Individual instruction for music majors or minors at the Upper Division performance level. Students demonstrate progress before a faculty jury at the end of each semester. A failed jury results in a failing grade for the course. Audition required.

Prerequisites: MUS 263F.

Co-requisites: Minimum of one course from the MUS 351-355 series.

Equivalent Quarter Course: MUS 3634 and MUS 4634.

Repeatability: May be repeated for credit for a maximum of 4 units.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

MUS 464A - Applied Study: Flute

Units: 1

Individual instruction for music majors or minors at the Upper Division performance level. Students demonstrate progress before a faculty jury at the end of each semester. A failed jury results in a failing grade for the course. Audition required.

Prerequisites: MUS 264A.

Co-requisites: Minimum of one course from the MUS 351-355 series.

Equivalent Quarter Course: MUS 3640 and MUS 4640.

Repeatability: May be repeated for credit for a maximum of 4 units.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

MUS 464B - Applied Study: Clarinet

Units: 1

Individual instruction for music majors or minors at the Upper Division performance level. Students demonstrate progress before a faculty jury at the end of each semester. A failed jury results in a failing grade for the course. Audition required.

Prerequisites: MUS 264B.

Co-requisites: Minimum of one course from the MUS 351-355 series.

Equivalent Quarter Course: MUS 3642 and MUS 4642.

Repeatability: May be repeated for credit for a maximum of 4 units.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

MUS 464C - Applied Study: Saxophone

Units: 1

Individual instruction for music majors or minors at the Upper Division performance level. Students demonstrate progress before a faculty jury at the end of each semester. A failed jury results in a failing grade for the course. Audition required.

Prerequisites: MUS 264C.

Co-requisites: Minimum of one course from the MUS 351-355 series.

Equivalent Quarter Course: MUS 3644 and MUS 4644.

Repeatability: May be repeated for credit for a maximum of 4 units.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

MUS 464D - Applied Study: Oboe

Units: 1

Individual instruction for music majors or minors at the Upper Division performance level. Students demonstrate progress before a faculty jury at the end of each semester. A failed jury results in a failing grade for the course. Audition required.

Prerequisites: MUS 264D.

Co-requisites: Minimum of one course from the MUS 351-355 series.

Equivalent Quarter Course: MUS 3641 and MUS 4641.

Repeatability: May be repeated for credit for a maximum of 4 units.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

MUS 464E - Applied Study: Bassoon

Units: 1

Individual instruction for music majors or minors at the Upper Division performance level. Students demonstrate progress before a faculty jury at the end of each semester. A failed jury results in a failing grade for the course. Audition required.

Prerequisites: MUS 264E.

Co-requisites: Minimum of one course from the MUS 351-355 series.

Equivalent Quarter Course: MUS 3643 and MUS 4643.

Repeatability: May be repeated for credit for a maximum of 4 units.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

MUS 465A - Applied Study: Trumpet

Units: 1

Individual instruction for music majors or minors at the Upper Division performance level. Students demonstrate progress before a faculty jury at the end of each semester. A failed jury results in a failing grade for the course. Audition required.

Prerequisites: MUS 265A.

Co-requisites: Minimum of one course from the MUS 351-355 series.

Equivalent Quarter Course: MUS 3650 and MUS 4650.

Repeatability: May be repeated for credit for a maximum of 4 units.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

MUS 465B - Applied Study: French Horn

Units: 1

Individual instruction for music majors or minors at the Upper Division performance level. Students demonstrate progress before a faculty jury at the end of each semester. A failed jury results in a failing grade for the course. Audition required.

grade for the course. Audition required.

Prerequisites: MUS 265B.

Co-requisites: Minimum of one course from the MUS 351-355 series.

Equivalent Quarter Course: MUS 3651 and MUS 4651.

Repeatability: May be repeated for credit for a maximum of 4 units.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

MUS 465C - Applied Study: Trombone

Units: 1

Individual instruction for music majors or minors at the Upper Division performance level. Students demonstrate progress before a faculty jury at the end of each semester. A failed jury results in a failing grade for the course. Audition required.

Prerequisites: MUS 265C.

Co-requisites: Minimum of one course from the MUS 351-355 series.

Equivalent Quarter Course: MUS 3652 and MUS 4652.

Repeatability: May be repeated for credit for a maximum of 4 units.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

MUS 465D - Applied Study: Euphonium

Units: 1

Individual instruction for music majors or minors at the Upper Division performance level. Students demonstrate progress before a faculty jury at the end of each semester. A failed jury results in a failing grade for the course. Audition required.

Prerequisites: MUS 265D.

Co-requisites: Minimum of one course from the MUS 351-355 series.

Equivalent Quarter Course: MUS 3653 and MUS 4653.

Repeatability: May be repeated for credit for a maximum of 4 units.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

MUS 465E - Applied Study: Tuba

Units: 1

Individual instruction for music majors or minors at the Upper Division performance level. Students demonstrate progress before a faculty jury at the end of each semester. A failed jury results in a failing grade for the course. Audition required.

Prerequisites: MUS 265E.

Co-requisites: Minimum of one course from the MUS 351-355 series.

Equivalent Quarter Course: MUS 3654 and MUS 4654.

Repeatability: May be repeated for credit for a maximum of 4 units.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

MUS 466 - Applied Study: Percussion

Units: 1

Individual instruction for music majors or minors at the Upper Division performance level. Students demonstrate progress before a faculty jury at the end of each semester. A failed jury results in a failing grade for the course. Audition required.

Prerequisites: MUS 266.

Co-requisites: Minimum of one course from the MUS 351-355 series.

Equivalent Quarter Course: MUS 3660 and MUS 4660.

Repeatability: May be repeated for credit for a maximum of 4 units.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

MUS 467A - Applied Study: Composition

Units: 1

Individual instruction for music majors or minors at the Upper Division performance level. Students demonstrate progress before a faculty jury at the end of each semester. A failed jury results in a failing grade for the course. Audition and portfolio required.

Prerequisites: MUS 267A.

Co-requisites: Minimum of one course from the MUS 351-355 series.

Equivalent Quarter Course: MUS 3670 and MUS 4670.

Repeatability: May be repeated for credit for a maximum of 4 units.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

MUS 467B - Applied Study: Interactive and Media Composition

Units: 1

Individual instruction for music majors or minors at the Upper Division performance level. Students demonstrate progress before a faculty jury at the end of each semester. A failed jury results in a failing grade for the course. Audition and portfolio required.

Prerequisites: MUS 267B.

Co-requisites: Minimum of one course from the MUS 351-355 series.

Equivalent Quarter Course: MUS 3685 and MUS 4685.

Repeatability: May be repeated for credit for a maximum of 4 units.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

MUS 467C - Applied Study: Jazz Composition

Units: 1

Individual instruction for music majors or minors at the Upper Division performance level. Students demonstrate progress before a faculty jury at the end of each semester. A failed jury results in a failing grade for the course. Audition and portfolio required.

Prerequisites: MUS 267C.

Co-requisites: Minimum of one course from the MUS 351-355 series.

Equivalent Quarter Course: MUS 3690 and MUS 4690.

Repeatability: May be repeated for credit for a maximum of 4 units.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

MUS 468 - Applied Study: Conducting

Units: 1

Individual instruction for music majors or minors at the Upper Division performance level. Students demonstrate progress before a faculty jury at the end of each semester. A failed jury results in a failing grade for the course. Audition and portfolio required.

Prerequisites: MUS 268.

Co-requisites: Minimum of one course from the MUS 351-355 series.

Equivalent Quarter Course: MUS 3680 and MUS 4680.

Repeatability: May be repeated for credit for a maximum of 4 units.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

MUS 469A - Applied Study: Jazz Trumpet

Units: 1

Individual instruction for music majors or minors at the Upper Division performance level. Students demonstrate progress before a faculty jury at the end of each semester. A failed jury results in a failing grade for the course. Audition required.

Prerequisites: MUS 269A.

Co-requisites: Minimum of one course from the MUS 351-355 series.

Equivalent Quarter Course: MUS 3696 and MUS 4696.

Repeatability: May be repeated for credit for a maximum of 4 units.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

MUS 469B - Applied Study: Jazz Trombone

Units: 1

Individual instruction for music majors or minors at the Upper Division performance level. Students demonstrate progress before a faculty jury at the end of each semester. A failed jury results in a failing grade for the course. Audition required.

Prerequisites: MUS 269B.

Co-requisites: Minimum of one course from the MUS 351-355 series.

Equivalent Quarter Course: MUS 3697 and MUS 4697.

Repeatability: May be repeated for credit for a maximum of 4 units.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

MUS 469C - Applied Study: Jazz Saxophone

Units: 1

Individual instruction for music majors or minors at the Upper Division performance level. Students demonstrate progress before a faculty jury at the end of each semester. A failed jury results in a failing grade for the course. Audition required.

Prerequisites: MUS 269C.

Co-requisites: Minimum of one course from the MUS 351-355 series.

Equivalent Quarter Course: MUS 3695 and MUS 4695.

Repeatability: May be repeated for credit for a maximum of 4 units.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

MUS 469D - Applied Study: Jazz Guitar

Units: 1

Individual instruction for music majors or minors at the Upper Division performance level. Students demonstrate progress before a faculty jury at the end of each semester. A failed jury results in a failing grade for the course. Audition required.

Prerequisites: MUS 269D.

Co-requisites: Minimum of one course from the MUS 351-355 series.

Equivalent Quarter Course: MUS 3692 and MUS 4692.

Repeatability: May be repeated for credit for a maximum of 4 units.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

MUS 469E - Applied Study: Jazz Bass

Units: 1

Individual instruction for music majors or minors at the Upper Division performance level. Students demonstrate progress before a faculty jury at the end of each semester. A failed jury results in a failing grade for the course. Audition required.

Prerequisites: MUS 269E.

Co-requisites: Minimum of one course from the MUS 351-355 series.

Equivalent Quarter Course: MUS 3693 and MUS 4693.

Repeatability: May be repeated for credit for a maximum of 4 units.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

MUS 469F - Applied Study: Jazz Drums

Units: 1

Individual instruction for music majors or minors at the Upper Division performance level. Students demonstrate progress before a faculty jury at the end of each semester. A failed jury results in a failing grade for the course. Audition required.

Prerequisites: MUS 269F.

Co-requisites: Minimum of one course from the MUS 351-355 series.

Equivalent Quarter Course: MUS 3694 and MUS 4694.

Repeatability: May be repeated for credit for a maximum of 4 units.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

MUS 481 - Vocal Coaching

Units: 1

Individual vocal coaching in collaborative music making for music majors or minors. Coaching times arranged according to degree recital expectations as outlined in the music major handbook.

Prerequisites: Department consent.

Co-requisites: Minimum of one course from the MUS 461-469 series.

Equivalent Quarter Course: MUS 4601.

Repeatability: May be repeated for credit for a maximum of 4 units.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

MUS 482 - Instrumental Coaching

Units: 1

Individual instrumental coaching in collaborative music making for music majors or minors. Coaching times arranged according to degree recital expectations as outlined in the music major handbook.

Prerequisites: Department consent.

Co-requisites: Minimum of one course from the MUS 461-469 series.

Equivalent Quarter Course: MUS 4602.

Repeatability: May be repeated for credit for a maximum of 4 units.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

Music: Chamber Ensembles

MUS 361 - Chamber Wind Ensemble

Units: 1

Ensemble focused on performing repertoire for small combinations of wind and brass instruments. Chamber ensembles are open to all qualified students (determined by audition). Field trips may be required.

Equivalent Quarter Course: MUS 3531.

Repeatability: May be repeated for credit for a maximum of 4 units.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

MUS 362 - Brass Ensemble

Units: 1

Ensemble focused on performing repertoire for small combinations of brass instruments. Field trips may be required.

Equivalent Quarter Course: MUS 3532.

Repeatability: May be repeated for credit for a maximum of 4 units.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

MUS 363 - Percussion Ensemble

Units: 1

Ensemble focused on performing repertoire for small combinations of percussion instruments. Field trips may be required. Audition required.

Equivalent Quarter Course: MUS 3535.

Repeatability: May be repeated for credit for a maximum of 4 units.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

MUS 364 - African Drumming Ensemble

Units: 1

Ensemble to explore repertoire for small and large combinations of African drums and percussion instruments. Field trip(s) may be required.

Equivalent Quarter Course: MUS 3536.

Repeatability: may be repeated for credit for a maximum of 4 units.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

MUS 365 - String Ensemble

Units: 1

Ensemble focused on performing repertoire for small combinations of string instruments. Field trips may be required. Audition required.

Equivalent Quarter Course: MUS 3541.

Repeatability: May be repeated for credit for a maximum of 8 units.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

MUS 366 - Guitar Ensemble

Units: 1

Chamber ensemble playing repertoire for small and large combinations of guitars with occasional soloists. Field trip(s) may be required. Audition required.

Equivalent Quarter Course: MUS 3542.

Repeatability: May be repeated for credit for a maximum of 4 units.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

MUS 367 - Piano Ensemble

Units: 1

Repertoire for small and large combinations of keyboard instruments with special attention paid towards works for piano four-hands and two pianos. Audition required.

Equivalent Quarter Course: MUS 3543.

Repeatability: May be repeated for credit for a maximum of 4 units.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

MUS 368A - Jazz Improvisation Ensemble

Units: 1

Introductory-level jazz ensemble focusing on general improvisation techniques in jazz. Field trips may be required. Audition required.

Equivalent Quarter Course: MUS 3550.

Repeatability: May be repeated for credit for a maximum of 6 units.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

MUS 368B - Jazz Standards Ensemble

Units: 1

Jazz ensemble focusing on standard jazz combo repertoire. Field trips may be required. Audition required.

Equivalent Quarter Course: MUS 3551.

Repeatability: May be repeated for credit for a maximum of 6 units.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

MUS 368C - Contemporary Jazz Ensemble

Units: 1

Jazz ensemble emphasizing modern, mainstream jazz repertoire. Field trips may be required. Audition required.

Equivalent Quarter Course: MUS 3552.

Repeatability: May be repeated for credit for a maximum of 6 units.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

MUS 368D - Blue Note Jazz Ensemble

Units: 1

Small jazz ensemble focusing on post-bop jazz of the 1950's and 1960's. Field trips may be required. Audition required.

Equivalent Quarter Course: MUS 3553.

Repeatability: May be repeated for credit for a maximum of 6 units.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

MUS 368E - Latin Jazz Ensemble

Units: 1

Jazz ensemble focusing on Afro-Cuban, Salsa, and Brazilian jazz repertoire. Field trips may be required.

Audition required.

Equivalent Quarter Course: MUS 3554.

Repeatability: May be repeated for credit for a maximum of 6 units.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

MUS 368F - Jazz Composers Ensemble

Units: 1

Jazz ensemble focusing on the composition and performance of student works for jazz ensemble. Field trips may be required. Audition required.

Equivalent Quarter Course: MUS 3555.

Repeatability: May be repeated for credit for a maximum of 6 units.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

MUS 369A - Vocal Repertory Ensemble

Units: 1

Chamber ensemble focusing on repertoire for solo voice and small and large combinations of voices with special attention paid to Art Song and peer review and collaborative assessment of performance practice. Field trip(s) may be required. Audition required.

Equivalent Quarter Course: MUS 3560.

Repeatability: May be repeated for credit for a maximum of 4 units.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

MUS 369B - Chamber Singers

Units: 1

Small vocal ensemble focusing on repertoire for chamber choir, mixed voices. Field trip(s) may be required. Audition required.

Equivalent Quarter Course: MUS 3561.

Repeatability: May be repeated for credit for a maximum of 4 units.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

MUS 369C - Jazz Singers

Units: 1

Small vocal ensemble focusing on repertoire for chamber choir, mixed voices, that is drawn from jazz,

pop, and world traditions. Auditions required.

Equivalent Quarter Course: MUS 3562.

Repeatability: May be repeated for credit for a maximum of 4 units.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

MUS 370A - Electric Jazz Ensemble

Units: 1

Jazz ensemble focusing on Fusion, Funk, and World Jazz. Field trips may be required. Audition required.

Equivalent Quarter Course: MUS 3556.

Repeatability: May be repeated for credit for a maximum of 6 units.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

MUS 370B - Rhythm Section Ensemble

Units: 1

Jazz ensemble emphasizing rhythmically challenging material such as odd-meter composition, polyrhythmic works, and pieces with frequent and dramatic metric changes. Field trips may be required. Audition required.

Equivalent Quarter Course: MUS 3558.

Repeatability: May be repeated for credit for a maximum of 6 units.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

MUS 370C - Sight-reading Ensemble

Units: 1

Jazz ensemble focusing on continual honing of sight-reading abilities through continual practice and performance of works unseen previous to rehearsal. Field trips may be required. Audition required.

Equivalent Quarter Course: MUS 3559.

Repeatability: May be repeated for credit for a maximum of 6 units.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

Music: Courses for Non-Music Majors

MUS 104 - Introduction to World Music

Units: 3 ; G.E./G.R. Area: C1

Investigating various world music traditions, including those in Africa, South America, and Asia, with an emphasis on connections with culture and history. Previous musical experience welcome but not necessary.

Equivalent Quarter Course: MUS 1004.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

G.E./G.R. Area Satisfied: *C1 - Lower Division Arts*

MUS 106 - History of Rock Music

Units: 3 ; G.E./G.R. Area: C1

A survey of important performers and styles from the 1950's to the present, and of the music's African, rhythm and blues, and classical music sources. Previous musical training not necessary.

Equivalent Quarter Course: MUS 1006.

Possible Instructional Methods: *Entirely On-line.*

Grading: A-F or CR/NC (student choice).

G.E./G.R. Area Satisfied: *C1 - Lower Division Arts*

MUS 106A - History of Hip-Hop

Units: 3 ; G.E./G.R. Area: C1

A survey of Hip Hop music, with an emphasis on its musical elements and influences. Students will acquire the appropriate vocabulary necessary to analyze Hip Hop music and trace its development as a form of human expression.

Possible Instructional Methods: *Entirely On-ground, Entirely On-line.*

Grading: A-F or CR/NC (student choice).

G.E./G.R. Area Satisfied: *C1 - Lower Division Arts*

MUS 106B - Music in Film

Units: 3 ; G.E./G.R. Area: C1

Exploration of the role of music in films as it stimulates the emotional response to the visual aspects of the art form and an examination of the historical evolution of film scoring.

Possible Instructional Methods: *Entirely On-line.*

Grading: A-F or CR/NC (student choice).

G.E./G.R. Area Satisfied: *C1 - Lower Division Arts*

MUS 106C - History of the Blues

Units: 3 ; G.E./G.R. Area: C1

Examination of a musical genre that forms the backbone of much American popular music. Survey of the

way the various Blues sub-genres have influenced popular music and culture in the United States.

Possible Instructional Methods: *Entirely On-line.*

Grading: A-F or CR/NC (student choice).

G.E./G.R. Area Satisfied: *C1 - Lower Division Arts*

MUS 107 - History of Jazz

Units: 3 ; G.E./G.R. Area: C1

Exposes students to the world of jazz music by studying periods, major performers and composers, trends, influences, stylistic features and cultural significance. No previous musical training is required. Field trips may be required.

Possible Instructional Methods: *Entirely On-ground, Entirely On-line.*

Grading: A-F or CR/NC (student choice).

G.E./G.R. Area Satisfied: *C1 - Lower Division Arts*

MUS 108 - The Language of Music

Units: 3 ; G.E./G.R. Area: C1

An introduction to the materials and structure of Western tonal art music, including notation, pitch, rhythm, meter, scales and keys, intervals, chords, harmonic progressions and voice-leading, and form.

Possible Instructional Methods: *Entirely On-ground, Entirely On-line.*

Grading: A-F or CR/NC (student choice).

G.E./G.R. Area Satisfied: *C1 - Lower Division Arts*

MUS 206 - Arts and Media of the Golden State

Units: 3 ; G.E./G.R. Area: C1

Survey of creativity in California, including stage, screen, recording arts, media, Silicon Valley, and gaming. Emphasis on the roles of delivery and content in developing a personal understanding and appreciation for arts and culture. Requires attendance at field trips.

Equivalent Quarter Course: MUS 2269

Possible Instructional Methods: *Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F or CR/NC (student choice).

G.E./G.R. Area Satisfied: *C1 - Lower Division Arts*

MUS 304 - Introduction to World Music & Culture

Units: 3 ; G.E./G.R. Area: C4

Investigating various world music traditions, including those in Africa, South America, and Asia, with an emphasis on connections with culture and history. Previous musical experience welcome but not necessary.

Prerequisites: Completion of GE areas A1, A2, A3 and B4.

Equivalent Quarter Course: MUS 3014.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

G.E./G.R. Area Satisfied: *C4 - Upper Division Arts or Humanities*

Music: Education

MUS 231 - Teaching String Instruments

Units: 1

Presents pedagogy and techniques for teaching violin, viola, cello, and bass in a school ensemble setting.

Equivalent Quarter Course: MUS 2331 and 2332.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

MUS 232 - Teaching Woodwind Instruments

Units: 1

Presents pedagogy and techniques for teaching flute, clarinet, saxophone, oboe, and bassoon in a school ensemble setting.

Equivalent Quarter Course: MUS 2341 and MUS 2342 and MUS 2343.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

MUS 233 - Teaching Brass Instruments

Units: 1

Presents pedagogy and techniques for teaching trumpet, French horn, trombone, and tuba in a school ensemble setting.

Equivalent Quarter Course: MUS 2355 and MUS 2355. Students must have taken both MUS 2355-01 and MUS 2355-02 to demonstrate equivalency for this course

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

MUS 234 - Teaching Percussion

Units: 1

Presents pedagogy and techniques for teaching percussion instruments in a school ensemble setting.

Equivalent Quarter Course: MUS 2361.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

MUS 235 - Basic Guitar Techniques

Units: 1

Fundamentals of playing guitar with emphasis on developing competencies sufficient to employ the instrument in an educational setting.

Equivalent Quarter Course: MUS 2371.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

MUS 236 - Basic Vocal Techniques

Units: 1

Class instruction in fundamentals of singing.

Equivalent Quarter Course: MUS 2321.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

MUS 238 - Music Education Laboratory Ensemble

Units: 1

Designed for music majors. Ensemble focused on performance on non-primary instruments, with an emphasis on performing elementary level repertoire suitable for school ensemble settings. Does not satisfy chamber ensemble requirement.

Credit Restrictions: May not be used to satisfy chamber ensemble requirement for BA in music.

Repeatability: May be repeated for credit for a maximum of 4 units.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

MUS 331 - Foundations of Music Education

Units: 3

Overview of music education for prospective music educators, with a focus on K-12 music education. Topics include philosophy of music education, K-12 music pedagogy, and the history, economics, and policy of music education. Field trips may be required.

Equivalent Quarter Course: MUS 2410.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

MUS 335 - Technology for Music Educators

Units: 3

Instruction in uses of audio software, and software for desktop, interactive, and music publishing to aid in the development of music education curricula, programs, and lessons. *Seminar Units: 2; Activity Units: 1*

Equivalent Quarter Course: MUS 3095.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

MUS 341 - Basic Conducting

Units: 3

Basic techniques of conducting including simple, compound and asymmetrical meters, expression and interpretation through observation and laboratory experience.

Prerequisites: Junior, senior or post-baccalaureate standing.

Equivalent Quarter Course: MUS 3370.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

MUS 431 - Elementary Music Teaching Methods

Units: 3

Designed for prospective school music educators. Development of methods, techniques, and knowledge appropriate for teaching elementary general music classes. Study and exploration of elementary music instructional materials and topics. Field trips may be required.

Prerequisites: Junior, senior or post-baccalaureate standing.

Equivalent Quarter Course: MUS 4445.

Repeatability: May be repeated for credit for a maximum of 6 units.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

MUS 432 - Instrumental Music Teaching Methods

Units: 3

Provides opportunity for students intending to become music teachers to develop rehearsal techniques, organizational procedures related to public school band and orchestra programs; become familiar with public school teaching materials; further develop conducting techniques; and improve secondary instruments skills.

Prerequisites: MUS 341.

Equivalent Quarter Course: MUS 4435.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

MUS 433 - Choral Music Teaching Methods

Units: 3

Development of rehearsal techniques and organizational procedures related to choirs and vocal ensembles in the elementary and secondary schools. Teaching materials and appropriate literature from various stylistic periods. Field trips may be required.

Prerequisites: MUS 341.

Equivalent Quarter Course: MUS 4440.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

MUS 441 - Intermediate Conducting

Units: 3

Special techniques of choral conducting including vocal and score reading and analysis, interpretation, and rehearsal through observation and laboratory experience.

Prerequisites: MUS 341 and junior, senior or post-baccalaureate standing.

Equivalent Quarter Course: MUS 3380 and MUS 3390.

Repeatability: May be repeated for credit for a maximum of 6 units.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

MUS 495 - Music Education Practicum

Units: 1

Practicum experience in K-12 public school class and rehearsal settings, involving observation and teaching under the supervision of music faculty. Focus on practical skills. Regularly scheduled seminars. Field trips required.

Prerequisites: Department consent.

Credit Restrictions: Only open for credit to music education majors participating in the music single subject matter preparation program.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

MUS 497 - Contemporary Issues in Music Education

Units: 3

Examination, discussion, and analysis of topics of consequence related to contemporary music teaching and learning.

Repeatability: May be repeated for credit for a maximum of 6 units.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

Music: Graduate

MUS 600 - Seminar in Research Methodology

Units: 3 ; G.E./G.R. Area: UWSR

Tools and resources available to conduct research in music. Organize and undertake a thesis-directed research project investigating important and relevant questions in music, and communicate findings in an academic manner. Required for Advancement to Candidacy.

Prerequisites: Post-baccalaureate standing ; and either CR (credit) in ENGL 300 or ENGL 301 and a score of 7 on the first-tier portfolio; or score of 7 or better on the Writing Skills test; or satisfaction of the graduation writing assessment requirement (GWAR) at any CSU campus including the UWSR at Cal State East Bay. Credit unavailable through challenge. *Note: see Errata chapter for changes*

Equivalent Quarter Course: MUS 6000.

Repeatability: May be repeated for credit for a maximum of 6 units.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

G.E./G.R. Area Satisfied: *University Writing Skills Requirement*

MUS 608A - Interactivity with Sound & Music I

Units: 3

Rudiments of hardware and software connectivity between different devices and programs for sound and music. Topics include the use of MIDI, Open Sound Control, and non-musically focused technology to create new sounds and musical experiences.

Prerequisites: M.A. Music major.

Equivalent Quarter Course: MUS 6085.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

MUS 608B - Interactivity with Sound & Music II

Units: 3

Continuation of Interactive Sound & Music I. Detailed study of the use of consumer hardware in conjunction with software protocols for controlling sound and music over computer networks. Rudimentary algorithmic music composition.

Prerequisites: MUS 608A.

Equivalent Quarter Course: MUS 6086.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

MUS 630 - Advanced Conducting

Units: 1

Ensemble conducting techniques including stylistic, pedagogical, and physical studies in gesture. Score analysis and ear training through the study of music from all genres and historical periods. Advanced rehearsal techniques and program building, including the development of ensemble.

Prerequisites: M.A. Music major.

Equivalent Quarter Course: MUS 6280.

Repeatability: May be repeated for credit for a maximum of 4 units.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

MUS 631 - Teaching Music in Higher Education

Units: 3

Preparation for careers in post-secondary education. Study of learning theories, curriculum development, assessment, and materials for teaching music in higher education.

Prerequisites: M.A. Music major.

Equivalent Quarter Course: MUS 6445.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

MUS 690 - Independent Study

Units: 1-3

Selected research topics agreed on between the student and the faculty supervising the course. A plan of work completion must be approved prior to proceeding with the project.

Prerequisites: Department consent and minimum 3.0 GPA.

Equivalent Quarter Course: MUS 6900.

Repeatability: May be repeated for credit with consent of instructor, for a maximum of 3 units.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

MUS 691 - University Thesis

Units: 1-4

Development and completion of a formal written thesis for submission to the university. Supervision by a departmental committee, at least one of whom must be a Cal State East Bay faculty member. Oral defense required.(See also "University Thesis Writing Guide," www.csueastbay.edu/thesiswritingguide).

Prerequisites: Department consent.

Equivalent Quarter Course: MUS 6910.

Repeatability: Course may be repeated for credit for a maximum of 4 units.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

MUS 693 - Project

Units: 1-3

Development and completion of an original product with a written summary. Supervision by a departmental committee, at least one of whom must be a Cal State East Bay faculty member. Oral defense required.

Prerequisites: Department consent and M.A. Music major.

Equivalent Quarter Course: MUS 6899.

Repeatability: May be repeated for credit for a maximum of 3 units.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

MUS 697 - Issues in Music

Units: 3

Graduate seminar focused on readings, discussion, and research on significant issues in music.

Prerequisites: Department consent.

Equivalent Quarter Course: MUS 6999.

Repeatability: May repeat once for credit for a maximum of 6 units when topic varies.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

Music: Graduate: Applied

MUS 660A - Graduate Vocal Coaching

Units: 1

Individual vocal coaching in collaborative music making for music majors or minors with Graduate-level performance ability. Coaching times arranged according to graduate degree recital expectations as outlined in the music major handbook.

Prerequisites: Department consent.

Co-requisites: MUS 662.

Equivalent Quarter Course: MUS 6601.

Repeatability: May be repeated for credit for a maximum of 4 units.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

MUS 660B - Graduate Instrumental Coaching

Units: 1

Individual instrumental coaching in collaborative music making for music majors or minors with Graduate-level performance ability. Coaching times arranged according to graduate degree recital expectations as outlined in the music major handbook.

Prerequisites: Department consent.

Co-requisites: Minimum of one course from: MUS 661A-D, MUS 663A-F, MUS 664A-E, MUS 665A-E, MUS 666, MUS 669A-F.

Equivalent Quarter Course: MUS 6602.

Repeatability: May be repeated for credit for a maximum of 4 units.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

MUS 661A - Graduate Applied Study: Piano

Units: 2

Individual instruction for music majors or minors with Graduate-level performance ability. Audition required. At the end of the second semester of study, students demonstrate their progress before a faculty jury. A failed jury results in a failing grade for the course.

Prerequisites: Department consent.

Equivalent Quarter Course: MUS 6610.

Repeatability: May be repeated for credit for a maximum of 8 units.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

MUS 661B - Graduate Applied Study: Organ

Units: 2

Individual instruction for music majors or minors with Graduate-level performance ability. Audition required. At the end of the second semester of study, students demonstrate their progress before a faculty jury. A failed jury results in a failing grade for the course.

Prerequisites: Department consent.

Equivalent Quarter Course: MUS 6611.

Repeatability: May be repeated for credit for a maximum of 8 units.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

MUS 661C - Graduate Applied Study: Harpsichord

Units: 2

Individual instruction for music majors or minors with Graduate-level performance ability. Audition required. At the end of the second semester of study, students demonstrate their progress before a faculty jury. A failed jury results in a failing grade for the course.

Prerequisites: Department consent.

Equivalent Quarter Course: MUS 6612.

Repeatability: May be repeated for credit for a maximum of 8 units.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

MUS 661D - Graduate Applied Study: Jazz Piano and Keyboard

Units: 2

Individual instruction for music majors or minors with Graduate-level performance ability. Audition required. At the end of the second semester of study, students demonstrate their progress before a faculty jury. A failed jury results in a failing grade for the course.

Prerequisites: Department consent.

Equivalent Quarter Course: MUS 6691.

Repeatability: May be repeated for credit for a maximum of 8 units.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

MUS 662 - Graduate Applied Study: Voice

Units: 2

Individual instruction for music majors or minors with Graduate-level performance ability. Audition required. At the end of the second semester of study, students demonstrate their progress before a faculty jury. A failed jury results in a failing grade for the course.

Prerequisites: Department consent.

Equivalent Quarter Course: MUS 6620.

Repeatability: May be repeated for credit for a maximum of 8 units.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

MUS 663A - Graduate Applied Study: Violin

Units: 2

Individual instruction for music majors or minors with Graduate-level performance ability. Audition required. At the end of the second semester of study, students demonstrate their progress before a faculty jury. A failed jury results in a failing grade for the course.

Prerequisites: Department consent.

Equivalent Quarter Course: MUS 6630.

Repeatability: May be repeated for credit for a maximum of 8 units.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

MUS 663B - Graduate Applied Study: Viola

Units: 2

Individual instruction for music majors or minors with Graduate-level performance ability. Audition required. At the end of the second semester of study, students demonstrate their progress before a faculty jury. A failed jury results in a failing grade for the course.

Prerequisites: Department consent.

Equivalent Quarter Course: MUS 6631.

Repeatability: May be repeated for credit for a maximum of 8 units.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

MUS 663C - Graduate Applied Study: Cello

Units: 2

Individual instruction for music majors or minors with Graduate-level performance ability. Audition required. At the end of the second semester of study, students demonstrate their progress before a faculty jury. A failed jury results in a failing grade for the course.

Prerequisites: Department consent.

Equivalent Quarter Course: MUS 6632.

Repeatability: May be repeated for credit for a maximum of 8 units.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

MUS 663D - Graduate Applied Study: Bass

Units: 2

Individual instruction for music majors or minors with Graduate-level performance ability. Audition required. At the end of the second semester of study, students demonstrate their progress before a faculty jury. A failed jury results in a failing grade for the course.

Prerequisites: Department consent.

Equivalent Quarter Course: MUS 6633.

Repeatability: May be repeated for credit for a maximum of 8 units.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

MUS 663E - Graduate Applied Study: Harp

Units: 2

Individual instruction for music majors or minors with Graduate-level performance ability. Audition required. At the end of the second semester of study, students demonstrate their progress before a faculty jury. A failed jury results in a failing grade for the course.

Prerequisites: Department consent.

Equivalent Quarter Course: MUS 6634.

Repeatability: May be repeated for credit for a maximum of 8 units.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

MUS 663F - Graduate Applied Study: Guitar

Units: 2

Individual instruction for music majors or minors with Graduate-level performance ability. Audition required. At the end of the second semester of study, students demonstrate their progress before a faculty jury. A failed jury results in a failing grade for the course.

Prerequisites: Department consent.

Equivalent Quarter Course: MUS 6635.

Repeatability: May be repeated for credit for a maximum of 8 units.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

MUS 664A - Graduate Applied Study: Flute

Units: 2

Individual instruction for music majors or minors with Graduate-level performance ability. Audition required. At the end of the second semester of study, students demonstrate their progress before a faculty jury. A failed jury results in a failing grade for the course.

Prerequisites: Department consent.

Equivalent Quarter Course: MUS 6640.

Repeatability: May be repeated for credit for a maximum of 8 units.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

MUS 664B - Graduate Applied Study: Clarinet

Units: 2

Individual instruction for music majors or minors with Graduate-level performance ability. Audition required. At the end of the second semester of study, students demonstrate their progress before a faculty jury. A failed jury results in a failing grade for the course.

Prerequisites: Department consent.

Equivalent Quarter Course: MUS 6642.

Repeatability: May be repeated for credit for a maximum of 8 units.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

MUS 664C - Graduate Applied Study: Bassoon

Units: 2

Individual instruction for music majors or minors with Graduate-level performance ability. Audition required. At the end of the second semester of study, students demonstrate their progress before a faculty jury. A failed jury results in a failing grade for the course.

Prerequisites: Department consent.

Equivalent Quarter Course: MUS 6643.

Repeatability: May be repeated for credit for a maximum of 8 units.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

MUS 664D - Graduate Applied Study: Saxophone

Units: 2

Individual instruction for music majors or minors with Graduate-level performance ability. Audition required. At the end of the second semester of study, students demonstrate their progress before a faculty jury. A failed jury results in a failing grade for the course.

Prerequisites: Department consent.

Equivalent Quarter Course: MUS 6644.

Repeatability: May be repeated for credit for a maximum of 8 units.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

MUS 664E - Graduate Applied Study: Oboe

Units: 2

Individual instruction for music majors or minors with Graduate-level performance ability. Audition required. At the end of the second semester of study, students demonstrate their progress before a faculty jury. A failed jury results in a failing grade for the course.

Prerequisites: Department consent.

Equivalent Quarter Course: MUS 6241.

Repeatability: May be repeated for credit for a maximum of 8 units.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

MUS 665A - Graduate Applied Study: Trumpet

Units: 2

Individual instruction for music majors or minors with Graduate-level performance ability. Audition required. At the end of the second semester of study, students demonstrate their progress before a faculty jury. A failed jury results in a failing grade for the course.

Prerequisites: Department consent.

Equivalent Quarter Course: MUS 6650.

Repeatability: May be repeated for credit for a maximum of 8 units.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

MUS 665B - Graduate Applied Study: French Horn

Units: 2

Individual instruction for music majors or minors with Graduate-level performance ability. Audition required. At the end of the second semester of study, students demonstrate their progress before a faculty jury. A failed jury results in a failing grade for the course.

Prerequisites: Department consent.

Equivalent Quarter Course: MUS 6651.

Repeatability: May be repeated for credit for a maximum of 8 units.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

MUS 665C - Graduate Applied Study: Trombone

Units: 2

Individual instruction for music majors or minors with Graduate-level performance ability. Audition required. At the end of the second semester of study, students demonstrate their progress before a faculty jury. A failed jury results in a failing grade for the course.

Prerequisites: Department consent.

Equivalent Quarter Course: MUS 6652.

Repeatability: May be repeated for credit for a maximum of 8 units.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

MUS 665D - Graduate Applied Study: Baritone

Units: 2

Individual instruction for music majors or minors with Graduate-level performance ability. Audition required. At the end of the second semester of study, students demonstrate their progress before a faculty jury. A failed jury results in a failing grade for the course.

Prerequisites: Department consent.

Equivalent Quarter Course: MUS 6653.

Repeatability: May be repeated for credit for a maximum of 8 units.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

MUS 665E - Graduate Applied Study: Tuba

Units: 2

Individual instruction for music majors or minors with Graduate-level performance ability. Audition required. At the end of the second semester of study, students demonstrate their progress before a faculty jury. A failed jury results in a failing grade for the course.

Prerequisites: Department consent.

Equivalent Quarter Course: MUS 6654.

Repeatability: May be repeated for credit for a maximum of 8 units.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

MUS 666 - Graduate Applied Study: Percussion

Units: 2

Individual instruction for music majors or minors with Graduate-level performance ability. Audition required. At the end of the second semester of study, students demonstrate their progress before a faculty jury. A failed jury results in a failing grade for the course.

Prerequisites: Department consent.

Equivalent Quarter Course: MUS 6660.

Repeatability: May be repeated for credit for a maximum of 8 units.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

MUS 667A - Graduate Applied Study: Composition

Units: 2

Individual instruction for music majors or minors with Graduate-level performance ability. Audition required. At the end of the second semester of study, students demonstrate their progress before a faculty jury. A failed jury results in a failing grade for the course.

Prerequisites: Department consent.

Equivalent Quarter Course: MUS 6670.

Repeatability: May be repeated for credit for a maximum of 8 units.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

MUS 667B - Graduate Applied Study: Jazz Composition

Units: 2

Individual instruction for music majors or minors with Graduate-level performance ability. Audition required. At the end of the second semester of study, students demonstrate their progress before a faculty jury. A failed jury results in a failing grade for the course.

Prerequisites: Department consent.

Equivalent Quarter Course: MUS 6690.

Repeatability: May be repeated for credit for a maximum of 8 units.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

MUS 667C - Graduate Applied Study: Interactive and Media Composition

Units: 2

Individual instruction for music majors or minors with Graduate-level performance ability. Audition required. At the end of the second semester of study, students demonstrate their progress before a faculty jury. A failed jury results in a failing grade for the course.

Prerequisites: Department consent.

Equivalent Quarter Course: MUS 6685.

Repeatability: May be repeated for credit for a maximum of 8 units.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

MUS 668 - Graduate Applied Study: Conducting

Units: 2

Individual instruction for music majors or minors with Graduate-level performance ability. Audition required. At the end of the second semester of study, students demonstrate their progress before a faculty jury. A failed jury results in a failing grade for the course.

Prerequisites: Department consent.

Equivalent Quarter Course: MUS 6680.

Repeatability: May be repeated for credit for a maximum of 8 units.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

MUS 669A - Graduate Applied Study: Jazz Guitar

Units: 2

Individual instruction for music majors or minors with Graduate-level performance ability. Audition required. At the end of the second semester of study, students demonstrate their progress before a faculty jury. A failed jury results in a failing grade for the course.

Prerequisites: Department consent.

Equivalent Quarter Course: MUS 6692.

Repeatability: May be repeated for credit for a maximum of 8 units.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

MUS 669B - Graduate Applied Study: Jazz Bass

Units: 2

Individual instruction for music majors or minors with Graduate-level performance ability. Audition required. At the end of the second semester of study, students demonstrate their progress before a faculty jury. A failed jury results in a failing grade for the course.

Prerequisites: Department consent.

Equivalent Quarter Course: MUS 6693.

Repeatability: May be repeated for credit for a maximum of 8 units.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

MUS 669C - Graduate Applied Study: Jazz Drums and Percussion

Units: 2

Individual instruction for music majors or minors with Graduate-level performance ability. Audition required. At the end of the second semester of study, students demonstrate their progress before a faculty jury. A failed jury results in a failing grade for the course.

Prerequisites: Department consent.

Equivalent Quarter Course: MUS 6694.

Repeatability: May be repeated for credit for a maximum of 8 units.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

MUS 669D - Graduate Applied Study: Jazz Saxophone

Units: 2

Individual instruction for music majors or minors with Graduate-level performance ability. Audition required. At the end of the second semester of study, students demonstrate their progress before a faculty jury. A failed jury results in a failing grade for the course.

Prerequisites: Department consent.

Equivalent Quarter Course: MUS 6695.

Repeatability: May be repeated for credit for a maximum of 8 units.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

MUS 669E - Graduate Applied Study: Jazz Trumpet

Units: 2

Individual instruction for music majors or minors with Graduate-level performance ability. Audition required. At the end of the second semester of study, students demonstrate their progress before a faculty jury. A failed jury results in a failing grade for the course.

Prerequisites: Department consent.

Equivalent Quarter Course: MUS 6696.

Repeatability: May be repeated for credit for a maximum of 8 units.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

MUS 669F - Graduate Applied Study: Jazz Trombone

Units: 2

Individual instruction for music majors or minors with Graduate-level performance ability. Audition required. At the end of the second semester of study, students demonstrate their progress before a faculty jury. A failed jury results in a failing grade for the course.

Prerequisites: Department consent.

Equivalent Quarter Course: MUS 6697.

Repeatability: May be repeated for credit for a maximum of 8 units.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

Music: Graduate: History and Literature

MUS 601A - Analysis of Musical Styles I

Units: 3

Analysis of compositional styles from chant to present-day music. Compositional principles are derived from the music with results then generalized according to composer and period.

Prerequisites: M.A. Music major.

Equivalent Quarter Course: MUS 6015.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

MUS 601B - Analysis of Musical Styles II

Units: 3

Analysis of compositional styles from chant to present-day music. Compositional principles are derived from the music with results then generalized according to composer and period.

Prerequisites: M.A. Music major.

Equivalent Quarter Course: MUS 6016.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

MUS 611 - Seminar in Music of the Medieval & Renaissance Periods

Units: 3

Musical styles, forms and performance practice from 400 to 1600 with detailed analyses of representative works and close reading of historical writings.

Prerequisites: M.A. Music major.

Equivalent Quarter Course: MUS 6105.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

MUS 612 - Seminar in Music of the Baroque Period

Units: 3

Musical styles, forms and performance practice from 1600 to 1750 with detailed analyses of representative works and close reading of historical writings.

Prerequisites: Admitted to M.A. Music program.

Equivalent Quarter Course: MUS 6115.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

MUS 613 - Seminar in Music of the Classical Period

Units: 3

Musical styles, forms and performance practice from 1750 to the early 19th century with detailed analyses of representative works and close reading of historical writings.

Prerequisites: M.A. Music major.

Equivalent Quarter Course: MUS 6125.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

MUS 614 - Seminar in Music of the Nineteenth Century

Units: 3

Musical styles, forms and performance practice from 1900 to early 20th century with detailed analyses of representative works and close reading of historical writings.

Prerequisites: M.A. Music major.

Equivalent Quarter Course: MUS 6135.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

MUS 615 - Seminar in Music of the Twentieth & Twenty-First Centuries

Units: 3

Musical styles, forms and performance practice from late 19th century to the present with detailed analyses of representative works and close reading of historical writings.

Prerequisites: M.A. Music major.

Equivalent Quarter Course: MUS 6180.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

MUS 622 - Seminar in Asian Music and Culture

Units: 3

Music and culture of selected parts of Asia and the Asian diaspora. Issues of identity, politics, modernization, and globalization will be studied from an ethnomusicological perspective.

Prerequisites: M.A. Music major.

Equivalent Quarter Course: MUS 6155.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

Music: History and Literature

MUS 121 - Music Through the Ages

Units: 3 ; G.E./G.R. Area: C1

Introduction to the history of Western art music. Emphasis on listening, reading, and beginning score study to develop awareness of style and structure. Influence of various styles and genres of music from other cultures may be included.

Equivalent Quarter Course: MUS 1155.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

G.E./G.R. Area Satisfied: *C1 - Lower Division Arts*

MUS 321 - Western Music History I

Units: 4

Investigating the stylistic development of music of western civilization; focus on the social, cultural, and historical contexts of the music of each style period. (I.) Music from the Medieval to Baroque periods.

Prerequisites: MUS 212.

Equivalent Quarter Course: MUS 3155.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

MUS 322 - Western Music History II

Units: 4

Investigating the stylistic development of music of western civilization; focus on the social, cultural, and historical contexts of the music of each style period. (II.) Music from the Classical to contemporary periods.

Prerequisites: MUS 321.

Equivalent Quarter Course: MUS 3156.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

MUS 323 - Western Music History Topics

Units: 3

Investigating the stylistic development of music of western civilization; focus on the social, cultural, and historical contexts of the music of different style periods.

Prerequisites: MUS 322.

Repeatability: May be repeated for credit for a maximum of 6 units.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

MUS 421 - Orchestral Literature

Units: 3

An historical survey of orchestral literature with a focus on important composers and their respective contributions to the genre. Includes the study of significant orchestral compositions. Field trips may be required.

Prerequisites: MUS 212.

Equivalent Quarter Course: MUS 3297 and 3298 and 3299.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

MUS 423 - Wind Ensemble Literature

Units: 3

An historical survey of compositions for wind ensemble with a focus on important composers and their respective contributions to the genre. Includes the study of a variety of wind ensemble configurations and

composers. Field trips may be required.

Prerequisites: MUS 212.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

Music: Major Performing Ensembles

MUS 351A - Singing Society

Units: 1

Major performance ensemble in the tradition of band and wind ensemble. Music activities are open to qualified students by audition. Music majors are required to enroll in one major performance group each semester of study. Field trips may be required.

Prerequisites: Department consent.

Equivalent Quarter Course: MUS 3515.

Repeatability: May be repeated for credit for a maximum of 8 units.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

MUS 351B - East Bay Singers

Units: 1

Major performance ensemble in the tradition of a collegiate choir. Audition required.

Equivalent Quarter Course: MUS 3504.

Repeatability: May be repeated for credit for a maximum of 8 units.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

MUS 353 - East Bay Wind Symphony

Units: 1

Major performance ensemble in the tradition of band and wind ensemble. Music activities are open to qualified students by audition. Music majors are required to enroll in one major performance group each semester of study. Field trips may be required.

Prerequisites: Department consent.

Equivalent Quarter Course: MUS 3511.

Repeatability: May be repeated for credit for a maximum of 8 units.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

MUS 354 - East Bay Orchestra

Units: 1

Large music ensemble in the tradition of the Symphonic Orchestra. Field trips may be required. Students must successfully audition with the ensemble director in order to enroll.

Prerequisites: Department consent.

Equivalent Quarter Course: MUS 3502. Both courses constitute the same ensemble, an orchestra.

Repeatability: May be repeated for credit for a maximum of 8 units.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

MUS 355 - East Bay Jazz Orchestra

Units: 1

Major performance ensemble in the tradition of jazz big band. Field trip(s) may be required. Audition required.

Prerequisites: Department consent.

Equivalent Quarter Course: MUS 3510.

Repeatability: May be repeated for credit for a maximum of 8 units.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

Music: Performance Activities

MUS 118A - Basic Keyboard I

Units: 1

Group instruction in piano for music majors.

Co-requisites: MUS 111 and MUS 115.

Equivalent Quarter Course: MUS 1315.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

MUS 118B - Basic Keyboard II

Units: 1

Group instruction in piano for music majors.

Prerequisites: MUS 118A, MUS 111, MUS 115.

Co-requisites: MUS 112 and MUS 116.

Equivalent Quarter Course: MUS 1316.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

MUS 218A - Intermediate Keyboard I

Units: 1

Intermediate keyboard skills for music majors.

Prerequisites: All of: MUS 112, MUS 116, MUS 118B.

Equivalent Quarter Course: MUS 2312.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

MUS 218B - Intermediate Keyboard II

Units: 1

Intermediate keyboard skills for music majors.

Prerequisites: MUS 218A.

Equivalent Quarter Course: MUS 2313.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

MUS 380 - Recital Class - Junior

Units: 1

Preparation for and performance of a junior level musical recital.

Prerequisites: Minimum of one course from the MUS 261-269 series.

Co-requisites: Minimum of one course from the MUS 361-370 series.

Equivalent Quarter Course: MUS 3609.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

Music: Theory

MUS 111 - Music Theory I

Units: 3 ; G.E./G.R. Area: C1

Intensive fundamentals of music, triads and seventh chords, figuration, SATB scoring, and harmonization. Each student will take an assessment exam at the beginning of the semester to determine the level of preparedness in fundamentals.

Strongly Recommended Preparation: MUS 115 and MUS 118A.

Prerequisites: MUS 108 or department consent.

Equivalent Quarter Course: MUS 1031 and MUS 1032.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).
G.E./G.R. Area Satisfied: C1 - Lower Division Arts

MUS 112 - Music Theory II

Units: 3

Diatonic harmonization, advanced figuration, chorale harmonization, seventh chords, and sequences.

Strongly Recommended Preparation: MUS 116 and MUS 118B.

Prerequisites: MUS 111.

Equivalent Quarter Course: MUS 1033.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

MUS 115 - Aural Skills I

Units: 1

Development of music reading skills applicable to all instrumental and vocal performance media. Dictation, analysis and singing of melodies and melodic exercises; study and performance of basic rhythmic materials.

Co-requisites: MUS 111 and MUS 118A.

Equivalent Quarter Course: MUS 1028.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

MUS 116 - Aural Skills II

Units: 1

Development of music reading skills applicable to all instrumental and vocal performance media. Dictation, analysis and singing of melodies and melodic exercises; study and performance of basic rhythmic materials.

Prerequisites: MUS 115.

Co-requisites: MUS 112 and MUS 118B.

Equivalent Quarter Course: MUS 1029

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

MUS 211 - Music Theory III

Units: 3

Sequences, secondary dominants, tonicization and modulation, phrase and motivic analysis, chromaticism, advanced tonal procedures.

Prerequisites: All of: MUS 112, MUS 116, MUS 118B.

Co-requisites: MUS 215.

Equivalent Quarter Course: MUS 2032.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

MUS 212 - Music Theory IV

Units: 3

Twentieth Century music up to the present; extension of tonality; non-tonal music. Analysis and compositional exercises.

Prerequisites: MUS 211 and MUS 215.

Co-requisites: MUS 216.

Equivalent Quarter Course: MUS 2033.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

MUS 215 - Aural Skills III

Units: 1

Development of music reading skills applicable to all instrumental and vocal performance media. Melodic, rhythmic and harmonic dictation, analysis and singing of melodies and melodic exercises; study and performance of basic rhythmic materials.

Prerequisites: MUS 112 and MUS 116.

Co-requisites: MUS 211.

Equivalent Quarter Course: MUS 2028.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

MUS 216 - Aural Skills IV

Units: 1

Development of music reading skills applicable to all instrumental and vocal performance media. Melodic, rhythmic and harmonic dictation, analysis and singing of melodies and melodic exercises; study and performance of basic rhythmic materials.

Prerequisites: MUS 215.

Co-requisites: MUS 212.

Equivalent Quarter Course: MUS 2029.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

MUS 311 - Analysis of Contemporary Music

Units: 3

Exploration of various music systems implemented by composers from 1940 forward. Analysis of the implementation of procedural music systems across genres.

Prerequisites: MUS 212.

Equivalent Quarter Course: MUS 3034.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

MUS 312 - Form and Analysis

Units: 3

The study and analysis of music written in traditional forms.

Prerequisites: MUS 212.

Equivalent Quarter Course: MUS 3051.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

MUS 316 - Jazz Theory and Composition

Units: 3

Study of jazz harmonic theory and composition for small jazz ensembles. Topics include the analysis of standard jazz repertoire and compositions by jazz composers, jazz applications of tonal harmony, reharmonization techniques and chord substitution, and idiomatic song forms.

Prerequisites: MUS 112.

Equivalent Quarter Course: MUS 3040.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

MUS 317A - Improvisation Techniques I

Units: 3

Introduction to improvisation techniques for jazz instrumentalists. Use of modes (major & melodic minor), symmetrical scales, and arpeggios in improvisation. Emphasis on the development of an idiomatic jazz style through the transcription and analysis of recorded solos by jazz masters.

Prerequisites: MUS 112.

Equivalent Quarter Course: MUS 3037.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

MUS 317B - Improvisation Techniques II

Units: 3

Advanced techniques in jazz improvisation. Topics include harmonic superimposition, playing "out", and poly-rhythms and cross-rhythms. Emphasis on the development of an idiomatic jazz style through the transcription and analysis of recorded solos by jazz masters.

Prerequisites: MUS 317A.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

MUS 411 - 16th Century Counterpoint

Units: 3

The writing of counterpoint modeled on the style of Palestrina. Additional work modeled on other 16th century composers may be introduced at the discretion of the instructor.

Strongly Recommended Preparation: MUS 211.

Equivalent Quarter Course: MUS 3061.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

MUS 412 - 18th Century Counterpoint

Units: 3

The writing of counterpoint modeled on the style of J. S. Bach. Additional work modeled on other 17th and 18th century composers may be introduced at the discretion of the instructor.

Prerequisites: MUS 211.

Equivalent Quarter Course: MUS 3062.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

MUS 413 - Instrumentation

Units: 3

Study of the instruments of the orchestra and band; scoring for small ensembles; survey of scoring for orchestra, band, and chorus.

Prerequisites: MUS 212.

Equivalent Quarter Course: MUS 4054.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

MUS 414 - Orchestration I

Units: 3

Scoring and arranging for smaller combinations of Western classical music forces such as string quartet, wind quintet, and other combinations of acoustic instruments in small ensembles. Overview of the development of the orchestra from the Baroque to Classical periods.

Prerequisites: MUS 212 and MUS 413.

Equivalent Quarter Course: MUS 4074.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

MUS 415 - Orchestration II

Units: 3

Continuation of MUS 414. Scoring for larger combinations of Western classical music forces such as string orchestra, wind ensemble, and orchestra. Overview of the development of the orchestra from the romantic period to the present.

Prerequisites: MUS 212 and MUS 414.

Equivalent Quarter Course: MUS 4075.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

MUS 416 - Jazz Arranging for Large Ensemble

Units: 3

Focus on arranging and orchestration techniques for large jazz ensemble. Study of ensemble scores from the jazz masters and the use of doublings, mutes, voicings, upper-structure triads, and linear harmonization to arrange and compose for big band.

Prerequisites: MUS 212 and MUS 316.

Equivalent Quarter Course: MUS 4077.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

Nursing

NURS 301 - Nutrition and Medical Nutrition Therapy

Units: 3

Introduction to the sources and functions of nutrients, health disorders caused by lack or excess of nutrients, and nutritional needs across the lifecycle. Concepts of medical nutrition therapy and the basics of nutritional assessment will be introduced.

Equivalent Quarter Course: NURS 2010.

Possible Instructional Methods: *Entirely On-ground, Entirely On-line, Hybrid (every section of this course may be*

taught both online and on-ground).

Grading: A-F grading only.

NURS 302 - Success in Nursing

Units: 1

This seminar explores learning strategies for the applied science of nursing by means of written and oral communication activities relevant to nursing courses.

Prerequisites: B.S. Nursing major.

Equivalent Quarter Course: NURS 2002.

Repeatability: May be repeated once for credit for a maximum of 2 units

Possible Instructional Methods: *Entirely On-ground.*

Grading: CR/NC grading only.

NURS 306 - Clinical Pathophysiology for the Associate Degree Nurse

Units: 4

Focus on mechanisms of disease, pathophysiological concepts and processes with emphasis on commonly occurring acute and chronic conditions and their clinical management and nursing implications.

Prerequisites: Concurrent enrollment in ADN program or completion of ADN degree.

Possible Instructional Methods: *Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F grading only.

NURS 310 - Foundations of Professional Nursing

Units: 2

This course is designed to introduce the student to the profession, practice, and discipline of nursing. Introduction to contemporary issues in nursing including theories, concepts, and principles used in the development and delivery of nursing care.

Prerequisites: B.S. Nursing major.

Co-requisites: NURS 311.

Equivalent Quarter Course: NURS 2020.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

NURS 311 - Nursing Interventions I

Units: 1

Introduction to the student to the basic interventions necessary to provide safe nursing care.

Prerequisites: B.S. Nursing major.

Co-requisites: NURS 310.

Equivalent Quarter Course: NURS 2022.

Possible Instructional Methods: *Entirely On-ground.*

Grading: CR/NC grading only.

NURS 312 - Health Assessment

Units: 2

Introduction to theories needed for application of the nursing process with emphasis on skills useful in data gathering and analysis for completing a health assessment. Normal and abnormal physical, social, and cultural structure and function are explored.

Prerequisites: B.S. Nursing major.

Co-requisites: NURS 313.

Equivalent Quarter Course: NURS 2030.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

NURS 313 - Health Assessment Lab

Units: 1

This laboratory course is designed to introduce students to health and physical assessment skills needed to provide safe and effective nursing care in all healthcare settings across the life span.

Prerequisites: B.S. Nursing major.

Co-requisites: NURS 312.

Equivalent Quarter Course: NURS 2032.

Possible Instructional Methods: *Entirely On-ground.*

Grading: CR/NC grading only.

NURS 314 - Mental Health and Psychiatric Nursing

Units: 2

Mental health is an integral part of an individual's well-being. This course focuses on mental health and psychiatric concepts, the relationship between mental and physical health, and the nursing diagnoses and interventions to address mental health needs of clients.

Prerequisites: B.S. Nursing major.

Co-requisites: NURS 315.

Equivalent Quarter Course: NURS 3406.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

NURS 315 - Mental Health and Psychiatric Nursing Practice

Units: 2

This clinical practicum provides students with experience assessing the mental health of clients, developing patient centered nursing plans of care, implementing interventions, and evaluating client outcomes. Emphasis is on the development of therapeutic relationships.

Prerequisites: B.S. Nursing major.

Co-requisites: NURS 314.

Equivalent Quarter Course: NURS 3407.

Possible Instructional Methods: *Entirely On-ground.*

Grading: CR/NC grading only.

NURS 316 - Clinical Pathophysiology

Units: 3

This course focuses on mechanisms of disease, pathophysiologic concepts and processes with emphasis on commonly occurring acute and chronic conditions and their clinical management.

Prerequisites: B.S. Nursing major, or BIOL 270 and BIOL 271 and department consent.

Equivalent Quarter Course: NURS 2005.

Possible Instructional Methods: *Entirely On-ground, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F grading only.

NURS 317 - Community Engagement I

Units: 1

This seminar course is focused on the delivery of culturally inclusive community-based healthcare, selected issues in primary care and health promotion. The course includes both in-class sessions and field experience in a community health facility or elder health site.

Prerequisites: B.S. Nursing major.

Co-requisites: All of: NURS 310, NURS 311, NURS 314, NURS 315.

Possible Instructional Methods: *Entirely On-ground.*

Grading: CR/NC grading only.

NURS 320 - Nursing Care of Adults I

Units: 2

Focus on nursing care delivery for adult individuals, their families, and communities who are experiencing acute and chronic illnesses.

Prerequisites: All of: NURS 310, NURS 311, NURS 312, NURS 313, NURS 314, NURS 315, NURS 316, NURS 317.

Co-requisites: All of: NURS 321, NURS 322, NURS 323.

Equivalent Quarter Course: NURS 2040.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

NURS 321 - Nursing Interventions II

Units: 1

Introduction to complex interventions necessary to provide safe nursing care.

Prerequisites: All of: NURS 310, NURS 311, NURS 312, NURS 313, NURS 314, NURS 315, NURS 316, NURS 317.

Co-requisites: NURS 320 and NURS 323.

Equivalent Quarter Course: NURS 3001 and NURS 3002 and NURS 3003.

Possible Instructional Methods: *Entirely On-ground.*

Grading: CR/NC grading only.

NURS 322 - Aging in Health and Illness

Units: 2

Explore theories of aging, health problems common in the aging individual, and knowledge and skill acquisition needed to care for these patients.

Prerequisites: All of: NURS 310, NURS 311, NURS 312, NURS 313, NURS 314, NURS 315, NURS 316, NURS 317.

Co-requisites: NURS 320, NURS 321 and NURS 323.

Possible Instructional Methods: *Entirely On-ground, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F grading only.

NURS 323 - Nursing Care of Adults I Practice

Units: 4

This clinical practicum course provides students with nursing practice experience in a variety of settings, including simulation.

Prerequisites: All of: NURS 310, NURS 311, NURS 312, NURS 313, NURS 314, NURS 315, NURS 316, NURS 317.

Co-requisites: NURS 320, NURS 321 and NURS 322.

Equivalent Quarter Course: NURS 2031 and NURS 2041.

Possible Instructional Methods: *Entirely On-ground.*

Grading: CR/NC grading only.

NURS 326 - Pharmacology for Nursing Practice

Units: 2

Basic principles of pharmacotherapeutics and characteristics of major drug groups with an emphasis on

treatment indications and nursing implications.

Prerequisites: B.S. Nursing major.

Co-requisites: All of: NURS 310, NURS 311, NURS 312, NURS 313, NURS 314, NURS 315, NURS 316, NURS 317.

Equivalent Quarter Course: NURS 2015.

Possible Instructional Methods: *Entirely On-ground, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F grading only.

NURS 327 - Community Engagement II

Units: 1

Seminar focused on delivering culturally inclusive, community-based health care and on disparities in chronic care and health care outcomes. Includes both in-class sessions and field experiences in community health facilities and facilities serving older adults.

Prerequisites: B.S. Nursing major and NURS 317.

Co-requisites: NURS 320, NURS 322 and NURS 323.

Possible Instructional Methods: *Entirely On-ground.*

Grading: CR/NC grading only.

NURS 360 - Transition to Professional Nurse Role

Units: 4

This course builds upon previous nursing education and provides an exploration of contemporary healthcare issues for registered nurses transitioning to the professional nurse role.

Prerequisites: B.S. Nursing: Post-Licensure Concentration major.

Equivalent Quarter Course: NURS 3509.

Possible Instructional Methods: *Entirely On-line, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F grading only.

NURS 361 - Health Promotion for Diverse Populations

Units: 3

Framework for exploration of health promotion principles and provides holistic approaches to prevention and maintenance of health and wellness for diverse populations.

Prerequisites: NURS 360.

Equivalent Quarter Course: NURS 3509.

Possible Instructional Methods: *Entirely On-line, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F grading only.

NURS 363 - Health Assessment for Registered Nurses

Units: 1

This course is designed for Registered Nurses to build on previous experience and to enhance clinical assessment skills.

Prerequisites: B.S. Nursing: Post-Licensure Concentration major.

Co-requisites: NURS 360.

Equivalent Quarter Course: NURS 3503.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

NURS 410 - Maternity Nursing

Units: 2

This course examines concepts related to the care of antepartal, intrapartal, postpartal and neonatal patients and families. The focus is developing knowledge, skills, and attitudes for evidence-based maternity nursing.

Prerequisites: B.S. Nursing major and all of: HDEV 380, NURS 320, NURS 321, NURS 322, NURS 323, NURS 326, NURS 327.

Co-requisites: NURS 411.

Equivalent Quarter Course: NURS 3404.

Possible Instructional Methods: *Entirely On-ground, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F grading only.

NURS 411 - Maternal Newborn Nursing Practice

Units: 2

This course applies concepts related to the care of antepartal, intrapartal, postpartal and neonatal patients and families. The focus is application of knowledge, skills, and attitudes for evidence-based maternity nursing practice.

Prerequisites: B.S. Nursing major and all of: HDEV 380, NURS 320, NURS 321, NURS 322, NURS 323, NURS 326, NURS 327.

Co-requisites: NURS 410.

Equivalent Quarter Course: NURS 3405.

Possible Instructional Methods: *Entirely On-ground.*

Grading: CR/NC grading only.

NURS 412 - Pediatric Nursing

Units: 2

This course is designed to provide essential knowledge in the design and delivery of care and integration

of the growth and development principles, health promotion, disease prevention, and recuperative care to the child with acute and chronic illnesses and their families.

Prerequisites: B.S. Nursing major and all of: HDEV 380, NURS 320, NURS 321, NURS 322, NURS 323, NURS 326, NURS 327.

Co-requisites: NURS 413.

Equivalent Quarter Course: NURS 3408.

Possible Instructional Methods: *Entirely On-ground, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F grading only.

NURS 413 - Pediatric Nursing Practice

Units: 2

This course is designed to provide the student with clinical experience in nursing care and management of the pediatric patient and their families with complex medical and surgical health care needs, including simulation.

Prerequisites: B.S. Nursing major and all of: HDEV 380, NURS 320, NURS 321, NURS 322, NURS 323, NURS 326, NURS 327.

Co-requisites: NURS 412.

Equivalent Quarter Course: NURS 3409.

Possible Instructional Methods: *Entirely On-ground.*

Grading: CR/NC grading only.

NURS 414 - Legal Issues in Nursing Practice

Units: 1

Legal issues in nursing and health care, including the Registered Nurse as client advocate. An overview of the American governmental system, California Nursing Practice Act, and relevant areas of civil and criminal law will be included.

Prerequisites: B.S. Nursing major and all of: NURS 320, NURS 321, NURS 322, NURS 326, NURS 327.

Equivalent Quarter Course: NURS 3401.

Possible Instructional Methods: *Entirely On-ground, Entirely On-line, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F grading only.

NURS 415 - Transitions of Care

Units: 1

Key concepts of the transitions of care framework and related content on health care history, financing, care settings, nursing case management and coordination of care.

Prerequisites: B.S. Nursing major and all of: NURS 320, NURS 321, NURS 322, NURS 326, NURS 327.

Equivalent Quarter Course: NURS 3502.

Possible Instructional Methods: *Entirely On-ground, Entirely On-line, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F grading only.

NURS 417 - Community Engagement III

Units: 1

Seminar focused on delivering culturally inclusive, community based healthcare and on disparities in health outcomes for families and children. Includes both in-class sessions and field experiences in schools or community health facilities serving women, children and families.

Prerequisites: B.S. Nursing major and NURS 327.

Co-requisites: All of: NURS 410, NURS 411, NURS 412, NURS 413.

Possible Instructional Methods: *Entirely On-ground.*

Grading: CR/NC grading only.

NURS 420 - Nursing Care of Adults II

Units: 2

Nursing care of adult patients, and their families, who are experiencing complex acute and chronic illness requiring medical and surgical interventions.

Prerequisites: B.S. Nursing major and all of: NURS 410, NURS 411, NURS 412, NURS 413, NURS 417.

Co-requisites: NURS 421.

Equivalent Quarter Course: NURS 3402 and NURS 3410.

Possible Instructional Methods: *Entirely On-ground, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F grading only.

NURS 421 - Nursing Care of Adults II Practice

Units: 4

This clinical practicum course provides students with experience in providing nursing care to adult patients, and their families, with complex illnesses in acute care settings, including simulation experience.

Prerequisites: B.S. Nursing major and all of: NURS 410, NURS 411, NURS 412, NURS 413, NURS 417.

Co-requisites: NURS 420.

Equivalent Quarter Course: NURS 3403 and NURS 3411.

Possible Instructional Methods: *Entirely On-ground.*

Grading: CR/NC grading only.

NURS 422 - Evidence-Based Practice and Nursing Research

Units: 2

This course focuses on appraisal and integration of research evidence, evaluation of outcomes, development of evidence-based practice, and critique of quantitative and qualitative healthcare research with an emphasis on research utilization.

Prerequisites: B.S. Nursing major and all of: NURS 410, NURS 411, NURS 412, NURS 413, NURS 417.

Equivalent Quarter Course: NURS 4203.

Possible Instructional Methods: *Entirely On-ground, Entirely On-line, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F grading only.

NURS 423 - Leadership in Nursing

Units: 2

Leadership and management theories and their application to healthcare issues and nursing practice.

Prerequisites: B.S. Nursing major and all of: NURS 410, NURS 411, NURS 412, NURS 413, NURS 414, NURS 415.

Equivalent Quarter Course: NURS 3202.

Possible Instructional Methods: *Entirely On-ground, Entirely On-line, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F grading only.

NURS 427 - Community Engagement IV

Units: 1

Delivery of culturally inclusive, community-based healthcare and selected issues of disparities in health outcomes for adults with chronic or complex illness. Includes both in-class sessions and field experiences in settings serving adults with complex healthcare needs.

Prerequisites: B.S. Nursing major and NURS 417.

Co-requisites: NURS 420, NURS 421.

Possible Instructional Methods: *Entirely On-ground.*

Grading: CR/NC grading only.

NURS 450 - Community Health Nursing

Units: 2 ; G.E./G.R. Area: Social Justice

This course explores population-focused approaches to community health promotion, disease prevention and integration of complex concepts in community health systems and policies.

Prerequisites: B.S. Nursing major and all of: NURS 420, NURS 421, NURS 422, NURS 423, NURS 427.

Co-requisites: NURS 451.

Equivalent Quarter Course: NURS 4207.

Possible Instructional Methods: *Entirely On-ground, Entirely On-line, Hybrid (every section of this course may be*

taught both online and on-ground).

Grading: A-F grading only.

G.E./G.R. Area Satisfied: *Overlay - Social Justice*

NURS 451 - Community Health Nursing Practice

Units: 2

This course applies concepts related to health promotion and disease prevention at the individual, family, community and systems levels. The focus is to promote health equity by addressing social determinants of health through the application of the nursing process.

Prerequisites: B.S. Nursing major and all of: NURS 420, NURS 421, NURS 422, NURS 423, NURS 427.

Co-requisites: NURS 450.

Equivalent Quarter Course: NURS 4208.

Possible Instructional Methods: *Entirely On-ground.*

Grading: CR/NC grading only.

NURS 452 - Preceptorship Synthesis

Units: 1

This discussion course is designed to assist the student in critical thinking, decision making, team building, and correlating theory and practice with an emphasis on assuming the role of the professional nurse.

Prerequisites: B.S. Nursing major and all of: NURS 420, NURS 421, NURS 422, NURS 423, NURS 427.

Co-requisites: NURS 453.

Equivalent Quarter Course: NURS 4301.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

NURS 453 - Preceptorship Practicum

Units: 4

This capstone practicum is a precepted experience in a clinical setting. Emphasis is placed on guided independence in professional nursing practice with integration, synthesis and application of research and leadership.

Prerequisites: B.S. Nursing major and all of: NURS 420, NURS 421, NURS 422, NURS 423, NURS 427.

Co-requisites: NURS 452.

Equivalent Quarter Course: NURS 4302.

Possible Instructional Methods: *Entirely On-ground.*

Grading: CR/NC grading only.

NURS 490 - Independent Study

Units: 1-4

Students may apply no more than 12 units of independent study in the major department and 8 units in other departments toward a baccalaureate degree.

Prerequisites: Department consent and minimum 2.0 GPA.

Equivalent Quarter Course: NURS 4900.

Repeatability: May be repeated for credit with consent of instructor, for a maximum of 12 units.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

NURS 492 - Global Health Nursing

Units: 1

Overview of global health in nursing. Students will have the opportunity to read, interpret and evaluate concepts in global health to increase their knowledge, skills, and attitudes regarding global health.

Prerequisites: B.S. Nursing major.

Possible Instructional Methods: *Entirely On-ground, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F grading only.

NURS 493 - Nursing Research in Global Health

Units: 1

Overview of global health nursing research. Students will read, interpret and evaluate global health research publications. Emphasis on women and infant health issues and critical analysis of research.

Prerequisites: B.S. Nursing major.

Possible Instructional Methods: *Entirely On-ground, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F grading only.

NURS 494 - Essentials of Critical Care Nursing

Units: 2

Medical and nursing management of adult patients with multiple, complex medical and surgical diagnoses in various types of critical care units.

Prerequisites: B.S. Nursing major, and either NURS 360 or both NURS 420 and NURS 421.

Equivalent Quarter Course: NURS 4206.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

NURS 495 - Palliative Care in the Community

Units: 2

Concepts of palliative and hospice care. Students participate in collaboration and practice with a service partner to provide quality interpersonal care to end-of-life patients and their families in the community.

Prerequisites: B.S. Nursing major or B.S. Health Science major and minimum 3.0 GPA.

Repeatability: May be repeated for maximum of 4 units.

Possible Instructional Methods: *Hybrid (every section of this course may be taught both online and on-ground).*

Grading: CR/NC grading only.

NURS 496 - Introduction to Healthcare Informatics

Units: 1

Survey of healthcare informatics issues and the technologies used in nursing practice, research, and administration.

Prerequisites: B.S. Nursing major or B.S. Health Science major.

Possible Instructional Methods: *Entirely On-line, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F or CR/NC (student choice).

NURS 497 - Current Issues in Professional Nursing

Units: 1

Discussion of a variety of current issues in nursing using Quality and Safety Education in Nursing as a framework. May include: violence in the workplace, opportunities in research and service, current research projects, healthcare needs of vulnerable populations.

Prerequisites: B.S. Nursing major.

Equivalent Quarter Course: NURS 3200.

Repeatability: May be repeated once for credit for a maximum of 2 units.

Possible Instructional Methods: *Entirely On-ground, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: CR/NC grading only.

NURS 499 - RN Capstone Project

Units: 4

Development, implementation, and evaluation of a project in the healthcare setting or community. Student projects may focus on education, leadership, management and/or evidence-based practice.

Prerequisites: B.S. Nursing: Post-Licensure Concentration major and NURS 360.

Co-requisites: NURS 450.

Equivalent Quarter Course: NURS 4305.

Possible Instructional Methods: *Entirely On-line, Hybrid (every section of this course may be taught both online*

and on-ground).

Grading: A-F grading only.

Nursing: Graduate

NURS 601 - Theoretical Perspectives of Advanced Nursing Practice

Units: 3

An exploration of theories significant to advanced nursing practice and healthcare including those addressing complex systems, bioethics, leadership, behavioral modification, health disparities, and quality improvement. Knowledge synthesis and translation to practice are discussed.

Prerequisites: Admission to M.S. Nursing program.

Possible Instructional Methods: *Entirely On-ground, Entirely On-line, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F grading only.

NURS 602 - Scientific Inquiry, Methods and Scholarship

Units: 3

Principles of scientific inquiry and professional writing based on critical appraisal of evidence from quantitative and qualitative biomedical research. Research design, methodology, and the process of synthesizing and implementing nursing and biomedical research findings to address clinical problems are discussed.

Prerequisites: Admission to M.S. Nursing program.

Possible Instructional Methods: *Entirely On-ground, Entirely On-line, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F grading only.

NURS 603 - Health Care Informatics

Units: 3

Provides knowledge and skills for navigating healthcare information technology to enhance patient care delivery. Health informatics used for communication, care coordination, interprofessional collaboration, health information management and data analysis for improved healthcare outcomes are discussed.

Prerequisites: Admission to M.S. Nursing program.

Possible Instructional Methods: *Entirely On-ground, Entirely On-line, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F grading only.

NURS 604 - Epidemiology of Population Health and Social Disparities

Units: 3

Applies concepts of epidemiology, social determinants of health, cultural inclusivity and the analysis of population data to design equitable health care services for diverse populations. Strategies to promote health, prevent illness, and reduce health disparities are explored.

Prerequisites: M.S.N. major.

Possible Instructional Methods: *Entirely On-ground, Entirely On-line, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F grading only.

NURS 605 - Contemporary Issues in Healthcare Economic and Social Policy

Units: 3

Healthcare issues, policy, politics, and healthcare economics are analyzed in the context of national health priorities. Impact of policies on accessibility, affordability and quality of care are discussed. Strategies for nurse leaders to engage in health policy are evaluated.

Prerequisites: M.S.N. major.

Possible Instructional Methods: *Entirely On-ground, Entirely On-line, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F grading only.

NURS 611 - Learner-Centered Theory and Methods in Nursing Education

Units: 2

Learner-centered education encompasses methods of teaching that shift the focus of instruction from the teacher to the student. This course will explore theories of learning and strategies for learner-centered teaching as they apply to nursing education.

Prerequisites: M.S.N. major.

Possible Instructional Methods: *Entirely On-ground, Entirely On-line, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F grading only.

NURS 612 - Advanced Pathophysiology, Pharmacology & Health Assessment

Units: 4

Emphasis on pathophysiologic processes underlying selected acute and chronic diseases across the life span. Pharmacotherapy and the nurse educator's role in teaching safe and effective medication management. Comprehensive physical, psychological, and cultural assessments for common diseases in clients and families.

Prerequisites: M.S.N. major.

Possible Instructional Methods: *Entirely On-ground, Entirely On-line, Hybrid (every section of this course may be*

taught both online and on-ground).

Grading: A-F grading only.

NURS 613 - Curriculum Design and Outcomes in Nursing

Units: 3

The components of curriculum design, development, implementation and evaluation in nursing education. Application of curriculum theory is included. Analysis of program data for continuous improvement is discussed.

Prerequisites: NURS 611.

Possible Instructional Methods: *Entirely On-ground, Entirely On-line, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F grading only.

NURS 614 - Instructional Strategies and Educational Technology in Nursing

Units: 3

Introduction of teaching/learning principles, instructional methods, and educational technology that facilitate teaching, assessment, and evaluation of nursing students in the 21st century classroom setting. Application of innovative strategies in healthcare education.

Prerequisites: NURS 611.

Possible Instructional Methods: *Entirely On-ground, Entirely On-line, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F grading only.

NURS 615 - Instructional Practicum: Teaching and Clinical Specialty Practices

Units: 3

A teaching and practical experience to support the development of the nurse educator in a clinical specialty area. Under the supervision of an accomplished preceptor/mentor, students practice the role of nurse educator to actively engage nursing students, healthcare professionals and clients.

Prerequisites: All of: NURS 601, NURS 602, NURS 603, NURS 604, NURS 605, NURS 612, NURS 613, NURS 614.

Possible Instructional Methods: *Entirely On-ground, Entirely On-line, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F grading only.

NURS 621 - Principles and Practices of Quality Patient Care

Units: 3

Examination of the principles and practices of quality improvement in health care settings. Applications of system assessment, data management and analysis, and evaluation methods to design safe, effective,

and efficient healthcare delivery systems are discussed.

Prerequisites: M.S.N. major.

Possible Instructional Methods: *Entirely On-ground, Entirely On-line, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F grading only.

NURS 622 - Leadership Influence and Change

Units: 3

Concepts and theories of leadership in nursing in the context of changing healthcare systems. Skills and strategies for effective leadership including complex system thinking, organizational culture, ethics, interprofessional communication, change models, conflict resolution, characteristics of leaders and team-building are presented.

Prerequisites: M.S.N. major.

Possible Instructional Methods: *Entirely On-ground, Entirely On-line, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F grading only.

NURS 623 - Organizational Systems and Finance Management in Health Care

Units: 3

Examines organizational health care delivery systems and organizational development from a nursing management perspective. Issues of healthcare economics, financial management, budgeting, current regulatory agency requirements and standards are discussed.

Prerequisites: M.S.N. major.

Possible Instructional Methods: *Entirely On-ground, Entirely On-line, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F grading only.

NURS 624 - Human Resources Management for Health Care

Units: 3

Examines human resource management in the current healthcare system with a focus on the role of the nurse manager/executive. Application of organizational and administrative theories to human resources models will be discussed.

Prerequisites: M.S.N. major.

Possible Instructional Methods: *Entirely On-ground, Entirely On-line, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F grading only.

NURS 625 - Leadership Practicum: Nurse Administrative Role in Organization Setting

Units: 3

Directs the student in the application of leadership and administrative principles and development of leadership skills through a mentored practical experience in a healthcare organizational setting.

Prerequisites: All of: NURS 601, NURS 602, NURS 603, NURS 604, NURS 605, NURS 621, NURS 622, NURS 623, NURS 624.

Possible Instructional Methods: *Entirely On-ground, Entirely On-line, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F grading only.

NURS 693 - Master's Synthesis Project

Units: 3

The master's in nursing synthesis project reflects students' expertise and capabilities as a nurse leader in education or administration. The student will integrate theory and research knowledge to address a selected organizational issue, clinical problem, or educational strategy.

Prerequisites: All of: NURS 601, NURS 602, NURS 603, NURS 604, NURS 605, and either NURS 612, NURS 613, NURS 614 or NURS 621, NURS 622, NURS 623, NURS 624.

Co-requisites: NURS 625, or NURS 615.

Possible Instructional Methods: *Entirely On-ground, Entirely On-line, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F grading only.

Philosophy

PHIL 100 - Workshop in Critical Thinking

Units: 3 ; G.E./G.R. Area: A3

Development of clarity and focus in thinking, with attention to rigor, modes of explanation, validity of reasoning, etc. Must earn C- or better for GE credit.

Equivalent Quarter Course: PHIL 1000.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

G.E./G.R. Area Satisfied: *A3 - Lower Division Critical Thinking*

PHIL 110 - Freshman Topics in Philosophy and the Arts

Units: 3 ; G.E./G.R. Area: C1

As part of the Freshman Learning Communities, this course will introduce students to basic concepts in philosophy as applied to the arts through the lens of a particular theme, and in relationship with other disciplines.

Credit Restrictions: Not open to students with credit for PHIL 120 or PHIL 130.

Equivalent Quarter Course: Any one from: PHIL 1005, PHIL 1102, PHIL 1103, PHIL 1104, PHIL 1201, PHIL 1302, PHIL 1303, PHIL 1401.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

G.E./G.R. Area Satisfied: *C1 - Lower Division Arts*

PHIL 120 - Freshman Topics in Philosophy

Units: 3 ; G.E./G.R. Area: C2

As part of the Freshman Learning Communities, this course will introduce students to basic concepts in philosophy through the lens of a particular theme, and in relationship with other disciplines.

Credit Restrictions: Not open to students with credit for PHIL 110 or PHIL 130.

Equivalent Quarter Course: Any one from: PHIL 1005, PHIL 1102, PHIL 1103, PHIL 1104, PHIL 1201, PHIL 1302, PHIL 1303, PHIL 1401.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

G.E./G.R. Area Satisfied: *C2 - Lower Division Humanities*

PHIL 130 - Freshman Topics in Philosophy, Religion, and Social Science

Units: 3 ; G.E./G.R. Area: D1-3

Introduction to basic concepts in philosophy through the lens of a particular theme, and in relationship with other disciplines, specifically in the context of how such concepts reflect relationships between the individual and society.

Credit Restrictions: Not open to students with credit for PHIL 110 or PHIL 120.

Equivalent Quarter Course: Any one from: PHIL 1005, PHIL 1102, PHIL 1103, PHIL 1104, PHIL 1201, PHIL 1302, PHIL 1303, PHIL 1401.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

G.E./G.R. Area Satisfied: *D1-3 - Lower Division Social Sciences*

PHIL 201 - Introduction to Philosophy

Units: 3 ; G.E./G.R. Area: C2

Major themes, thinkers and methods in philosophy. Topics include the history of philosophy, the nature of philosophical questioning, God, reality, truth and the self.

Equivalent Quarter Course: PHIL 2001.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

G.E./G.R. Area Satisfied: *C2 - Lower Division Humanities*

PHIL 211 - Introduction to Ethics

Units: 3 ; G.E./G.R. Area: C2

Introduction to philosophical ethics. Topics include major ethical theories, virtue, vice, evil, character, moral education and relativism. Impact of cultural diversity on ethical discourse.

Prerequisites: Completion of GE areas A1, A2 and A3.

Equivalent Quarter Course: PHIL 2002.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

G.E./G.R. Area Satisfied: *C2 - Lower Division Humanities*

PHIL 241 - Introduction to Judaism, Christianity, and Islam

Units: 3 ; G.E./G.R. Area: C2

Covers the three Abrahamic faiths: Judaism, Christianity, and Islam. Students will learn about each tradition's historical development and the specific beliefs of each, in addition to the relationships between these faiths and the sources of conflict.

Credit Restrictions: Not open to students with credit in PHIL 341.

Equivalent Quarter Course: PHIL 2003.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

G.E./G.R. Area Satisfied: *C2 - Lower Division Humanities*

PHIL 242 - Introduction to Asian Religion

Units: 3 ; G.E./G.R. Area: C2

Introduction to Buddhism in India, Southeast Asia, East Asia, and Japan within the context of related religions including Hinduism, Shinto and the religions of China.

Credit Restrictions: Not open for credit to students with credit for PHIL 342.

Equivalent Quarter Course: PHIL 2605.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

G.E./G.R. Area Satisfied: *C2 - Lower Division Humanities*

PHIL 300 - Reasoning and Writing for Philosophy Majors

Units: 3

Declared Philosophy Majors and Minors only.

Prerequisites: B.A. Philosophy major.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

PHIL 301 - Modern Logic

Units: 3 ; G.E./G.R. Area: C4

Advanced course in symbolic logic. Modern logic is more powerful than traditional Aristotelean logic, symbolization covering a greater range of inferences. Modern logic includes results such as Godel's incompleteness theorem, no system of logic can prove all mathematical truths.

Strongly Recommended Preparation: PHIL 100

Prerequisites: Completion of GE areas A1, A2, A3 and B4.

Equivalent Quarter Course: PHIL 3002.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

G.E./G.R. Area Satisfied: *C4 - Upper Division Arts or Humanities*

PHIL 310 - Ethics

Units: 3 ; G.E./G.R. Area: C4; Social Justice

Major ethical or moral theories and their relation to different social systems, institutions and cultures of the world.

Prerequisites: Completion of GE areas A1, A2, A3 and B4.

Equivalent Quarter Course: PHIL 3100.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

G.E./G.R. Area Satisfied: *C4 - Upper Division Arts or Humanities, Overlay - Social Justice*

PHIL 311 - Environmental Ethics

Units: 3 ; G.E./G.R. Area: C4; Sustainability

Philosophical conceptions of nature and the environment, and human responsibilities towards it, drawn from different historical and cultural traditions.

Prerequisites: Completion of GE areas A1, A2, A3 and B4.

Equivalent Quarter Course: PHIL 3151.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

G.E./G.R. Area Satisfied: *C4 - Upper Division Arts or Humanities, Overlay - Sustainability*

PHIL 312 - Bioethics

Units: 3 ; G.E./G.R. Area: C4; Social Justice

Ethical issues in biology and medicine, such as euthanasia, abortion, truth-telling, genetic engineering, cloning, distribution of medical resources.

Prerequisites: Completion of GE areas A1, A2, A3 and B4.

Equivalent Quarter Course: PHIL 3152.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

G.E./G.R. Area Satisfied: C4 - Upper Division Arts or Humanities, Overlay - Social Justice

PHIL 313 - Philosophy of Business and Professional Ethics

Units: 3 ; G.E./G.R. Area: C4

Explores value systems and ethical issues related to business, professional, and commercial activity. Topics may include organizational culture, ethical leadership, diversity, environmental regulation vs. property rights, truthfulness in business communications, and corporate social responsibility.

Prerequisites: Completion of GE areas A1, A2, A3 and B4.

Equivalent Quarter Course: PHIL 3560.

Possible Instructional Methods: Entirely On-ground.

Grading: A-F grading only.

G.E./G.R. Area Satisfied: C4 - Upper Division Arts or Humanities

PHIL 320 - Philosophy of Art

Units: 3 ; G.E./G.R. Area: C4; Diversity

Exploring issues in the philosophy of art, such as the nature of artworks, how we learn about or from them, the moral implications of art, art as a voice for underrepresented groups, and cultural appropriation.

Prerequisites: Completion of GE areas A1, A2, A3 and B4.

Equivalent Quarter Course: PHIL 3201.

Possible Instructional Methods: Entirely On-ground.

Grading: A-F or CR/NC (student choice).

G.E./G.R. Area Satisfied: C4 - Upper Division Arts or Humanities, Overlay - Diversity

PHIL 321 - Philosophy and Science Fiction

Units: 3 ; G.E./G.R. Area: C4; Social Justice

Philosophical discussion about topics contained explicitly or implicitly in science fiction writing and film.

Prerequisites: Completion of GE areas A1, A2, A3 and B4.

Equivalent Quarter Course: PHIL 3216.

Possible Instructional Methods: Entirely On-ground.

Grading: A-F or CR/NC (student choice).

G.E./G.R. Area Satisfied: C4 - Upper Division Arts or Humanities, Overlay - Social Justice

PHIL 324 - Philosophy and Sex

Units: 3 ; G.E./G.R. Area: C4; Diversity

Philosophical examination of conceptual and ethical issues raised by sexuality and sexual love. Emphasis will include the LGBT community, women, and other historically oppressed groups. Topics include love and sexuality, promiscuity, prostitution, adultery, polyamory, sexual harassment, pornography, and same-

sex marriage.

Prerequisites: Completion of GE areas A1, A2, A3 and B4.

Equivalent Quarter Course: PHIL 3161.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

G.E./G.R. Area Satisfied: *C4 - Upper Division Arts or Humanities, Overlay - Diversity*

PHIL 330 - Epistemology: Knowing and Not Knowing

Units: 3 ; G.E./G.R. Area: C4

An exploration of such issues as evidence, knowledge, skepticism, relativism, truth, and the nature of understanding.

Prerequisites: Completion of GE areas A1, A2, A3 and B4.

Equivalent Quarter Course: PHIL 3301.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

G.E./G.R. Area Satisfied: *C4 - Upper Division Arts or Humanities*

PHIL 331 - Metaphysics: Being and Not Being

Units: 3 ; G.E./G.R. Area: C4

An exploration of the nature of matter, mind, space, time, causality, truth, and the real.

Prerequisites: Completion of GE areas A1, A2, A3 and B4.

Equivalent Quarter Course: PHIL 3311.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

G.E./G.R. Area Satisfied: *C4 - Upper Division Arts or Humanities*

PHIL 332 - Philosophy of Social Science

Units: 3 ; G.E./G.R. Area: C4

Philosophical study of theories, methods and problems in the social and behavioral sciences.

Prerequisites: Completion of GE areas A1, A2, A3 and B4.

Equivalent Quarter Course: PHIL 3321.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

G.E./G.R. Area Satisfied: *C4 - Upper Division Arts or Humanities*

PHIL 333 - Philosophy of Language

Units: 3 ; G.E./G.R. Area: C4

An exploration of fundamental issues concerning language and discourse, such as truth, communication,

meaning, representation, understanding, metaphor, and irony.

Prerequisites: Completion of GE areas A1, A2, A3 and B4.

Equivalent Quarter Course: PHIL 3322.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

G.E./G.R. Area Satisfied: *C4 - Upper Division Arts or Humanities*

PHIL 335 - Philosophy of Science

Units: 3 ; G.E./G.R. Area: C4

The nature of scientific explanation, scientific methods, and conceptual revolutions in science. How to distinguish between science, non-science, and pseudoscience. Discussion of whether the scientific method is a superior and more objective means of determining truth.

Prerequisites: Completion of GE areas A1, A2, A3 and B4.

Equivalent Quarter Course: PHIL 3332.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

G.E./G.R. Area Satisfied: *C4 - Upper Division Arts or Humanities*

PHIL 336 - Philosophy of Cognition and Artificial Intelligence

Units: 3 ; G.E./G.R. Area: C4

Philosophical study of the nature of cognition and of human and machine intelligence.

Prerequisites: Completion of GE areas A1, A2, A3 and B4.

Equivalent Quarter Course: PHIL 3341.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

G.E./G.R. Area Satisfied: *C4 - Upper Division Arts or Humanities*

PHIL 337 - Science and Religion

Units: 3 ; G.E./G.R. Area: C4

Nature of science and of religion. Apparent conflict between science, religion, and magical thinking. Distinction between facts and values. Discussion of issues such as whether creationism and intelligent design are viable alternatives to the theory of evolution.

Prerequisites: Completion of GE areas A1, A2, A3 and B4.

Equivalent Quarter Course: PHIL 3344.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

G.E./G.R. Area Satisfied: *C4 - Upper Division Arts or Humanities*

PHIL 338 - Atheism, Agnosticism, and Theism

Units: 3 ; G.E./G.R. Area: C4

Philosophical examination of atheism, agnosticism, belief in God, and the reasons, if any, for these three positions. Topics may also include morality, humanism, nihilism, science and religion, the meaning of life, and the nature of spirituality.

Prerequisites: Completion of GE areas A1, A2, A3 and B4.

Equivalent Quarter Course: PHIL 3421.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

G.E./G.R. Area Satisfied: *C4 - Upper Division Arts or Humanities*

PHIL 340 - Philosophy of Religion

Units: 3 ; G.E./G.R. Area: C4

Discusses philosophical issues such as the existence of God, the problem of evil, the paradox of free will, the nature of religious experience and mysticism.

Prerequisites: Completion of GE areas A1, A2, A3 and B4.

Equivalent Quarter Course: PHIL 3400.

Repeatability: May be repeated once for credit when content varies, for a maximum of 6 units.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

G.E./G.R. Area Satisfied: *C4 - Upper Division Arts or Humanities*

PHIL 341 - Abrahamic Religions

Units: 3 ; G.E./G.R. Area: C4

Study of Judaism, Christianity, Islam and others; their beliefs and practices; Abrahamic identity through the history and evolution of the traditions; including readings from the Hebrew Bible, the Christian Bible, the Koran, and other core Abrahamic texts.

Prerequisites: Completion of GE areas A1, A2, A3 and B4.

Equivalent Quarter Course: PHIL 3411 and PHIL 3417.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

G.E./G.R. Area Satisfied: *C4 - Upper Division Arts or Humanities*

PHIL 342 - Religions of Asia

Units: 3 ; G.E./G.R. Area: C4

Survey of South and East Asian religious thought and practice as expressed in the traditions of Confucianism, Daoism, Hinduism, Buddhism, Shintoism and others.

Prerequisites: Completion of GE areas A1, A2, A3 and B4.

Credit Restrictions: Not open to students with credit in PHIL 242.

Equivalent Quarter Course: PHIL 3403.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

G.E./G.R. Area Satisfied: *C4 - Upper Division Arts or Humanities*

PHIL 343 - Contemporary Religious Thinkers

Units: 3 ; G.E./G.R. Area: C4

Religious philosophies of one or more major thinkers of the Twentieth Century from different cultures or religious traditions of the world.

Prerequisites: Completion of GE areas A1, A2, A3 and B4.

Equivalent Quarter Course: PHIL 3401.

Repeatability: May be repeated once for credit when content varies, for a maximum of 6 units.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

G.E./G.R. Area Satisfied: *C4 - Upper Division Arts or Humanities*

PHIL 344 - Mysticism

Units: 3 ; G.E./G.R. Area: C4

Survey of mystical and religious experiences and mystical texts and traditions in world religions including Judaism, Christianity, Islam, Hinduism, Buddhism, and Taoism.

Prerequisites: Completion of GE areas A1, A2, A3 and B4.

Equivalent Quarter Course: PHIL 3404.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

G.E./G.R. Area Satisfied: *C4 - Upper Division Arts or Humanities*

PHIL 345 - Comparative Religion

Units: 3 ; G.E./G.R. Area: C4

Critical and comparative study of themes from Western, Indigenous, Global South (e.g., Africana, Southern and Latin American), and South and East Asian philosophies and religions.

Prerequisites: Completion of GE areas A1, A2, A3 and B4.

Equivalent Quarter Course: PHIL 3410.

Repeatability: May be repeated for credit for a maximum of 6 units.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

G.E./G.R. Area Satisfied: *C4 - Upper Division Arts or Humanities*

PHIL 346 - Cults and New Religious Movements

Units: 3 ; G.E./G.R. Area: C4; Diversity

Introduction to many new religions including Scientology, Wicca, and the Peoples' Temple. Students will learn the origins of such groups and how they grow and perpetuate their beliefs.

Prerequisites: Completion of GE areas A1, A2, A3 and B4.

Equivalent Quarter Course: PHIL 3431.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

G.E./G.R. Area Satisfied: *C4 - Upper Division Arts or Humanities, Overlay - Diversity*

PHIL 347 - Religion, Monsters, and Horror

Units: 3 ; G.E./G.R. Area: C4

Examination of monsters as they appear in the world's religions. Discussion of the nature of evil, the fear of death, and the experience of the uncanny. References include religious scriptures, folklore, and popular culture.

Prerequisites: Completion of GE areas A1, A2, A3 and B4.

Equivalent Quarter Course: PHIL 3432.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

G.E./G.R. Area Satisfied: *C4 - Upper Division Arts or Humanities*

PHIL 348 - Views of the Afterlife

Units: 3 ; G.E./G.R. Area: C4

Overview of the beliefs in life after death found in the world's religions. Examination of the experiences of those who feel they have had a brush with the dead or with death itself.

Prerequisites: Completion of GE areas A1, A2, A3 and B4.

Equivalent Quarter Course: PHIL 3433.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

G.E./G.R. Area Satisfied: *C4 - Upper Division Arts or Humanities*

PHIL 349 - Africana Philosophy and Religions

Units: 3 ; G.E./G.R. Area: C4

This course considers the intersection of philosophy and religion in African and African Diaspora traditions.

Prerequisites: Completion of GE areas A1, A2, A3 and B4.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

G.E./G.R. Area Satisfied: C4 - Upper Division Arts or Humanities

PHIL 351 - Social and Political Philosophy

Units: 3 ; G.E./G.R. Area: C4; Social Justice

Study of the philosophical theories underlying or justifying policy issues: individual freedom and government protection of rights; freedom of speech and religious, racial or sexual prejudice; affirmative action and reverse discrimination; violence, personal responsibility and roots of social injustice.

Prerequisites: Completion of GE areas A1, A2, A3 and B4.

Equivalent Quarter Course: PHIL 3502.

Possible Instructional Methods: Entirely On-ground.

Grading: A-F or CR/NC (student choice).

G.E./G.R. Area Satisfied: C4 - Upper Division Arts or Humanities, Overlay - Social Justice

PHIL 353 - Human Rights in the U.S.

Units: 3 ; G.E./G.R. Area: C4; Diversity

Philosophical perspectives on human rights principles as they apply to the lived experiences of the diverse cultural groups and women in the United States.

Prerequisites: Completion of GE areas A1, A2, A3 and B4.

Equivalent Quarter Course: PHIL 3510.

Possible Instructional Methods: Entirely On-ground.

Grading: A-F or CR/NC (student choice).

G.E./G.R. Area Satisfied: C4 - Upper Division Arts or Humanities, Overlay - Diversity

PHIL 354 - Global Human Rights and Social Justice

Units: 3 ; G.E./G.R. Area: C4; Social Justice

Explores human rights theory and its global application from a philosophical perspective. Considers whether the following concepts can be applied globally: The nature of rights, individualism, liberalism, the social contract, multiculturalism, materialism, and the nature of power.

Prerequisites: Completion of GE areas A1, A2, A3 and B4.

Equivalent Quarter Course: PHIL 3511.

Possible Instructional Methods: Entirely On-ground.

Grading: A-F or CR/NC (student choice).

G.E./G.R. Area Satisfied: C4 - Upper Division Arts or Humanities, Overlay - Social Justice

PHIL 355 - Race and Justice

Units: 3 ; G.E./G.R. Area: C4; Diversity

A philosophical examination of race, racism, racial identity/formation, and racial justice incorporating the

narratives and essays of members of diverse U.S. cultural groups.

Prerequisites: Completion of GE areas A1, A2, A3 and B4.

Equivalent Quarter Course: PHIL 3515.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

G.E./G.R. Area Satisfied: *C4 - Upper Division Arts or Humanities, Overlay - Diversity*

PHIL 361 - Ancient and Medieval Philosophy

Units: 3 ; G.E./G.R. Area: C4

Western philosophy from the ancient Greeks (including Socrates, Plato and Aristotle) through the philosophers and theologians of the Middle Ages (including St. Augustine and St. Thomas Aquinas).

Prerequisites: Completion of GE areas A1, A2, A3 and B4.

Equivalent Quarter Course: PHIL 3601.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

G.E./G.R. Area Satisfied: *C4 - Upper Division Arts or Humanities*

PHIL 362 - Modern Philosophy

Units: 3 ; G.E./G.R. Area: C4

Seventeenth and eighteenth century Western philosophy, especially rationalism (Descartes, Spinoza, Leibniz) and empiricism (Locke, Berkeley, Hume).

Prerequisites: Completion of GE areas A1, A2, A3 and B4.

Equivalent Quarter Course: PHIL 3602.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

G.E./G.R. Area Satisfied: *C4 - Upper Division Arts or Humanities*

PHIL 365 - Existentialism

Units: 3 ; G.E./G.R. Area: C4

An inquiry into the meaning of human existence with particular emphasis on the self. By examining themes like anxiety, alienation, freedom, God, being, and absurdity, students come to understand where the meaning of human existence is located.

Prerequisites: Completion of GE areas A1, A2, A3 and B4.

Equivalent Quarter Course: PHIL 3605.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

G.E./G.R. Area Satisfied: *C4 - Upper Division Arts or Humanities*

PHIL 371 - Philosophy of Education

Units: 3 ; G.E./G.R. Area: C4

Philosophical examination of educational theories and of their applications in various cultural and social contexts.

Prerequisites: Completion of GE areas A1, A2, A3 and B4.

Equivalent Quarter Course: PHIL 3701.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

G.E./G.R. Area Satisfied: *C4 - Upper Division Arts or Humanities*

PHIL 373 - African-American Philosophical Perspectives

Units: 3 ; G.E./G.R. Area: C4; Diversity

Philosophical examination of the social, cultural and political issues of African Americans primarily from the perspective of African-American philosophers. Topics may be historical and contemporary, and may include, (for example) black alienation, nihilism, and black feminist thought.

Prerequisites: Completion of GE areas A1, A2, A3 and B4.

Equivalent Quarter Course: PHIL 3721.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

G.E./G.R. Area Satisfied: *C4 - Upper Division Arts or Humanities, Overlay - Diversity*

PHIL 375 - Feminist Philosophy

Units: 3 ; G.E./G.R. Area: C4; Social Justice

Major themes, theories, and different schools of feminist philosophy; the influences of Marxism, psychoanalysis, existential phenomenology, postmodernism, and theories of difference, with special reference to American feminist thought.

Prerequisites: Completion of GE areas A1, A2, A3 and B4.

Equivalent Quarter Course: PHIL 3720.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

G.E./G.R. Area Satisfied: *C4 - Upper Division Arts or Humanities, Overlay - Social Justice*

PHIL 377 - Philosophy of Law

Units: 3 ; G.E./G.R. Area: C4; Social Justice

Introduction to the main schools of jurisprudence and legal philosophy with an emphasis on their application to issues of social justice.

Prerequisites: Completion of GE areas A1, A2, A3 and B4.

Equivalent Quarter Course: PHIL/POSC 3503.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

G.E./G.R. Area Satisfied: *C4 - Upper Division Arts or Humanities, Overlay - Social Justice*

Cross-listed: POSC 377

PHIL 378 - Evil

Units: 3 ; G.E./G.R. Area: C4

Survey of traditional and contemporary philosophical debates on the nature, origin, and existence of evil. Topics may include cruelty, genocide, torture, war, slavery.

Prerequisites: Completion of GE areas A1, A2, A3 and B4.

Equivalent Quarter Course: PHIL 3543.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

G.E./G.R. Area Satisfied: *C4 - Upper Division Arts or Humanities*

PHIL 381 - Shamanism

Units: 3 ; G.E./G.R. Area: C4

Survey of diverse indigenous shamanic traditions in parallel to a critical inquiry into neo-shamanic traditions.

Prerequisites: Completion of GE areas A1, A2, A3 and B4.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

G.E./G.R. Area Satisfied: *C4 - Upper Division Arts or Humanities*

PHIL 490 - Independent Study

Units: 3

Independent study under direction of faculty.

Prerequisites: Department consent and minimum 2.0 GPA.

Equivalent Quarter Course: PHIL 4900.

Repeatability: May be repeated for credit for a maximum of 9 units.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

PHIL 497 - Issues in Philosophy or Religion

Units: 3

Readings, discussion, and research on contemporary and/or significant issues in philosophy and/or religion.

Equivalent Quarter Course: PHIL 3999.

Repeatability: May be repeated once for credit when content varies, for a maximum of 6 units.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

PHIL 499 - Senior Seminar

Units: 3

Building on the skills instilled in the touchstone course and throughout their work in the major, students will round out their academic and theoretical writing skills. Primary focus will be on completing a portfolio of approximately three polished philosophical essays.

Prerequisites: Senior standing and PHIL 300.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

Physics

PHYS 104 - Musical Acoustics

Units: 4 ; G.E./G.R. Area: B1, B3

Basic introduction to the physics of sound waves. Focuses on developing a scientific framework to understand how different musical instruments produce a variety of sounds, how waves transmit the sound, and ultimately how qualities of sound are perceived. *Lecture Units: 3; Lab Units: 1*

Equivalent Quarter Course: PHYS 1200.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

G.E./G.R. Area Satisfied: *B1 - Lower Division Physical Science, B3 - Lower Division Laboratory Activity*

PHYS 105 - How Things Work

Units: 3 ; G.E./G.R. Area: B1

A descriptive exploration of phenomena you observe every day. The underlying universal physical principles that govern how things behave are revealed by examining a variety of examples such as roller coasters, microwaves, cell phones, and radios.

Equivalent Quarter Course: PHYS 1500.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

G.E./G.R. Area Satisfied: *B1 - Lower Division Physical Science*

PHYS 106 - Physics for Future Leaders

Units: 3 ; G.E./G.R. Area: B1; Sustainability

Essential physics needed to be a president, business leader, coach, or any other profession. Covers knowledge required to make informed decisions regarding current issues with technical aspects. Topics of study include energy, radioactivity, spy satellites, and medical imaging.

Equivalent Quarter Course: PHYS 1410.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

G.E./G.R. Area Satisfied: *B1 - Lower Division Physical Science, Overlay - Sustainability*

PHYS 107 - Science of Energy

Units: 3 ; G.E./G.R. Area: B1; Sustainability

A descriptive course covering energy resources, production, and consumption in the 21st century. Energy input and output of physical systems such as household appliances and modes of transportation.

Equivalent Quarter Course: PHYS 2005.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

G.E./G.R. Area Satisfied: *B1 - Lower Division Physical Science, Overlay - Sustainability*

PHYS 108 - Astronomy of Ancient Cultures

Units: 3 ; G.E./G.R. Area: B1; Diversity

Exploration of astronomical techniques, tools, and theories of ancient cultures from around the world (e.g., Aztec, Mayan, Hopi, Chinese, Egyptian, Indian, Greek). Projects and discussions investigate ancient astronomy, cosmology, and timekeeping practices with extensive connections to modern astrophysics.

Equivalent Quarter Course: PHYS 1810.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

G.E./G.R. Area Satisfied: *B1 - Lower Division Physical Science, Overlay - Diversity*

PHYS 115 - Elementary Physics

Units: 3 ; G.E./G.R. Area: B1, B3

A guided-inquiry-based conceptual investigation of the physical world and the nature of science. Students develop ideas in topical areas including energy, forces, heat, electricity and magnetism, and light. *Lecture*

Units: 2; Lab Units: 1

Equivalent Quarter Course: PHYS 1700 and PHYS 1780.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

G.E./G.R. Area Satisfied: *B1 - Lower Division Physical Science, B3 - Lower Division Laboratory Activity*

PHYS 125 - Principles of Physics I

Units: 4 ; G.E./G.R. Area: B1, B3

An algebra-based introduction to the way one can describe the physical world, including motion, the causes of motion as well as other fundamental principles of nature. Major topics covered include kinematics, Newton's laws, conservation laws, thermodynamics, fluids and oscillations. *Lecture Units: 3; Lab Units: 1*

Prerequisites: Satisfactory score of 78 or higher on Math Proficiency Assessment or MATH 120.

Co-requisites: MATH 120.

Equivalent Quarter Course: The two semester sequence PHYS 125 and PHYS 126 is equivalent to the three quarter sequence PHYS 2701 and PHYS 2702 and 2703.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

G.E./G.R. Area Satisfied: *B1 - Lower Division Physical Science, B3 - Lower Division Laboratory Activity*

PHYS 125A - Principles of Physics I - Discussion

Units: 1

Focuses on developing problem solving strategies and provides in-depth review of topics from the lecture. Optional supplemental discussion section taken concurrently with PHYS 125.

Prerequisites: MATH 120.

Co-requisites: PHYS 125.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

PHYS 126 - Principles of Physics II

Units: 4 ; G.E./G.R. Area: B1, B3

The second semester of the year-long, algebra based, introductory Physics sequence. A major focus is the study of Electricity and Magnetism and the nature of light. Other topics include standing waves, optics, electrical circuits and Modern Physics. *Lecture Units: 3; Lab Units: 1*

Prerequisites: PHYS 125.

Equivalent Quarter Course: The two semester sequence PHYS 125 and PHYS 126 is equivalent to the three quarter sequence PHYS 2701 and PHYS 2702 and 2703.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

G.E./G.R. Area Satisfied: *B1 - Lower Division Physical Science, B3 - Lower Division Laboratory Activity*

PHYS 126A - Principles of Physics II - Discussion

Units: 1

Supplemental discussion section taken concurrently with PHYS 126 focused on problem solving

strategies and in-depth review of topics from the lecture.

Prerequisites: PHYS 125.

Co-requisites: PHYS 126.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

PHYS 135 - Physics for Scientists and Engineers I

Units: 4 ; G.E./G.R. Area: B1, B3

A calculus-based introduction to Newtonian mechanics that emphasizes both conceptual understanding and the ability to solve quantitative problems. Topics of study include kinematics, Newton's laws, conservation of momentum and energy, rotational motion, gravitation, oscillations, and fluids. *Lecture Units: 3; Lab Units: 1*

Co-requisites: MATH 130.

Equivalent Quarter Course: PHYS 1001. Also, the three semester sequence PHYS 135 and PHYS 136 and PHYS 137 is equivalent to the four quarter sequence PHYS 1001 and PHYS 1002 and PHYS 1003 and PHYS 2004.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

G.E./G.R. Area Satisfied: *B1 - Lower Division Physical Science, B3 - Lower Division Laboratory Activity*

PHYS 136 - Physics for Scientists and Engineers II

Units: 4

A calculus-based introduction to electricity and magnetism that emphasizes both conceptual understanding and the ability to solve quantitative problems. Topics of study include the electric force, field, and potential, electric circuits, magnetic force, magnetic field, electromagnetic induction, Maxwell's equations, and electromagnetic waves. *Lecture Units: 3; Lab Units: 1*

Prerequisites: MATH 130 and PHYS 135.

Equivalent Quarter Course: The three semester sequence PHYS 135 and PHYS 136 and PHYS 137 is equivalent to the four quarter sequence PHYS 1001 and PHYS 1002 and PHYS 1003 and PHYS 2004.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

PHYS 137 - Physics for Scientists and Engineers III

Units: 4

A calculus-based introduction to modern physics, thermodynamics, and waves that emphasizes both conceptual understanding and the ability to solve quantitative problems. Topics of study include thermodynamics, entropy, heat engines, waves, diffraction and interference, optics, special relativity, quantum mechanics, and atomic/nuclear physics. *Lecture Units: 3; Lab Units: 1*

Prerequisites: MATH 130 and PHYS 136.

Equivalent Quarter Course: The three semester sequence PHYS 135 and PHYS 136 and PHYS 137 is equivalent to the four quarter sequence PHYS 1001 and PHYS 1002 and PHYS 1003 and PHYS 2004.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

PHYS 138 - Descriptive Astronomy

Units: 3 ; G.E./G.R. Area: B1

A descriptive survey of astronomy, astrophysics and cosmology. Introduction to methods of obtaining facts and formulating principals. Overview of physical nature and evolution of solar system, stars and galaxies.

Equivalent Quarter Course: PHYS 1800.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

G.E./G.R. Area Satisfied: *B1 - Lower Division Physical Science*

PHYS 139 - Astronomy Laboratory

Units: 1 ; G.E./G.R. Area: B3

Laboratory exploration of the visible universe, includes; motion of the moon, planets and stars, the use of light and spectroscopy to understand astronomical objects and telescope operation. Night observations are included. Intended to accompany PHYS 138 or PHYS 339.

Co-requisites: PHYS 138 or PHYS 339.

Equivalent Quarter Course: PHYS 1880.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

G.E./G.R. Area Satisfied: *B3 - Lower Division Laboratory Activity*

PHYS 230 - Physical Reasoning

Units: 3 ; G.E./G.R. Area: Writing II

Focus on the elements of sound physical reasoning as expressed through clear scientific writing. Students will write detailed solutions to challenging problems, summaries of research articles, and reviews of important topics of physics.

Prerequisites: MATH 230, and PHYS 137 or PHYS 126.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

G.E./G.R. Area Satisfied: *Writing II*

PHYS 301 - Physics Connections

Units: 3 ; G.E./G.R. Area: B6

Connections between Physics and other natural sciences and engineering with real-world applications and examples. Focus is on preparing to teach under the K12 Next Generation Science Standards with the goal of teaching science with confidence.

Prerequisites: Completion of GE Areas A1, A2, A3 and B4 ; and either PHYS 115, PHYS 125, or PHYS 135.

Equivalent Quarter Course: PHYS 3011.

Possible Instructional Methods: *Entirely On-ground, Entirely On-line.*

Grading: A-F or CR/NC (student choice).

G.E./G.R. Area Satisfied: *B6 - Upper Division Science Inquiry and Quantitative Reasoning*

PHYS 302 - Physics Connections Laboratory

Units: 1

Laboratory experience demonstrating connections between Physics and other natural sciences and engineering. The course focuses on K12 Next Generation Science Standards with the goal of teaching science with confidence.

Prerequisites: PHYS 301 and either PHYS 115, PHYS 125, or PHYS 135.

Equivalent Quarter Course: PHYS 3012.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

PHYS 303 - Biophysics

Units: 3 ; G.E./G.R. Area: B6

A descriptive exploration of the intersection between biology, medicine, and physics. Topics of study include, for example, ultrasound, X-rays, magnetic resonance imaging (MRI), and the important discoveries enabled by these techniques.

Prerequisites: Completion of GE areas A1, A2, A3 and B4.

Equivalent Quarter Course: PHYS 3750.

Possible Instructional Methods: *Entirely On-ground, Entirely On-line.*

Grading: A-F or CR/NC (student choice).

G.E./G.R. Area Satisfied: *B6 - Upper Division Science Inquiry and Quantitative Reasoning*

PHYS 304 - Acoustics

Units: 3 ; G.E./G.R. Area: B6

Basic introduction to the physical properties of sound. Focus on the scientific and mathematical framework describing acoustical concepts necessary to understand the creation and measurement of sound waves, with particular application to the human voice, speech articulation, and hearing mechanisms.

Prerequisites: Completion of GE areas A1, A2, A3 and B4.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

G.E./G.R. Area Satisfied: *B6 - Upper Division Science Inquiry and Quantitative Reasoning*

PHYS 305 - Environmental Health Science Electromagnetic and Nuclear Radiation

Units: 3

Focus on the fundamental elements of electromagnetic radiation and nuclear radiation and their connections to environmental health science.

Prerequisites: PHYS 137 or both PHYS 126 and completion of GE area B4.

Credit Restrictions: Not for Physics majors.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

PHYS 307 - Social Impact Through Sustainable Solar Design

Units: 3 ; G.E./G.R. Area: B6; Sustainability

Topics include: hands-on instruction of solar energy and design, energy poverty, and social justice impacts of solar energy. Construct stand-alone solar energy system designed for delivery of energy to the energy poor. Opportunities to teach solar science in local schools. *Discussion Units: 2; Lab Units: 1*

Prerequisites: Completion of GE areas A1, A2, A3 and B4.

Repeatability: May be repeated for credit for a maximum of 6 units.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

G.E./G.R. Area Satisfied: *B6 - Upper Division Science Inquiry and Quantitative Reasoning, Overlay - Sustainability*

Cross-listed: ENVT 307.

PHYS 308 - Sustainable Energy Systems

Units: 3 ; G.E./G.R. Area: B6; Sustainability

Project-based course; Science of climate change and its relation to energy systems; student projects have high impact on their campus carbon emissions. Readings, discussion, and research on contemporary and/or significant issues in physics relating to climate science and energy systems. *Lecture Units: 2; Lab Units: 1*

Prerequisites: Completion of GE areas A1, A2, A3 and B4.

Repeatability: May be repeated for credit for a maximum of 6 units.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

G.E./G.R. Area Satisfied: *B6- Upper Division Science Inquiry and Quantitative Reasoning, Overlay - Sustainability*

PHYS 330 - Analytic Mechanics

Units: 3

Newton's laws and conservation laws are applied to solve a variety of problems. Calculus of variations and Lagrange's equations are developed and applied. Other topics include central force inertial reference frames, rotational motion of rigid bodies, and coupled oscillators.

Prerequisites: MATH 230, and PHYS 137 or PHYS 126.

Equivalent Quarter Course: PHYS 3101 and PHYS 3102.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

PHYS 337 - Extrasolar Planets

Units: 3 ; G.E./G.R. Area: B6

Introduction to extrasolar planet detections and characterization. Topics of study include extrasolar planet detection methods, planet geologic and atmospheric characterization, and a summary of biosignatures of Earth and other planetary systems.

Prerequisites: Completion of GE areas A1, A2, A3 and B4.

Equivalent Quarter Course: PHYS 3710.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

G.E./G.R. Area Satisfied: *B6 - Upper Division Science Inquiry and Quantitative Reasoning*

PHYS 338 - The Cosmos

Units: 3 ; G.E./G.R. Area: B6

A grand view of astronomy covering the origin and evolution of the Universe. Topics of study include cosmological models, relativity, particle physics, the Big Bang, the origin and evolution of stars and galaxies, and the search for extra-terrestrial life.

Prerequisites: Completion of GE areas A1, A2, A3 and B4.

Equivalent Quarter Course: PHYS 3700.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

G.E./G.R. Area Satisfied: *B6 - Upper Division Science Inquiry and Quantitative Reasoning*

PHYS 339 - Stars and Galaxies

Units: 3 ; G.E./G.R. Area: B6

Structure and evolution of stars and galaxies. Topics include processes of star formation, stellar evolution, and stellar death as well as galactic formation, evolution, and distribution within the Universe.

Prerequisites: Completion of GE areas A1, A2, A3 and B4.

Equivalent Quarter Course: PHYS 3720.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

G.E./G.R. Area Satisfied: B6 - Upper Division Science Inquiry and Quantitative Reasoning

PHYS 340 - Statistical Mechanics and Thermodynamics

Units: 3

Connection between macroscopic properties of light and matter and microscopic characteristics of their constituent particles is explored. Topics of study include microstates/macrostates, energy, temperature, heat, entropy, the canonical ensemble and partition function, quantum degenerate gases, chemical equilibrium, and phase transitions.

Prerequisites: MATH 230, and PHYS 137 or PHYS 126.

Equivalent Quarter Course: PHYS 3151 and PHYS 3152.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

PHYS 350 - Quantum Mechanics I

Units: 3

Relationship between quantum measurements and the postulates of quantum mechanics is explored. Mathematical techniques are developed (Hilbert spaces, Dirac notation, operators, eigenvalues/eigenvectors). Schrodinger's equation and the Heisenberg uncertainty relation are applied to problems involving one-dimensional potentials and angular momentum.

Prerequisites: MATH 230, and PHYS 126 or PHYS 137.

Equivalent Quarter Course: The two semester sequence PHYS 350 and PHYS 351 is equivalent to the three quarter sequence PHYS 3301 and PHYS 3302 and PHYS 3303.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

PHYS 351 - Quantum Mechanics II

Units: 3

Topics of study include the general theory of angular momentum and addition of angular momentum, entanglement, three-dimensional potentials, the hydrogen atom, and approximation methods in quantum mechanics with an emphasis on time-independent and time-dependent perturbation theory.

Prerequisites: PHYS 350.

Equivalent Quarter Course: The two semester sequence PHYS 350 and PHYS 351 is equivalent to the three quarter sequence PHYS 3301 and PHYS 3302 and PHYS 3303.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

PHYS 360 - Selected Topics

Units: 1

Various subjects and projects providing an extension of the Physics curriculum.

Equivalent Quarter Course: PHYS 4250.

Repeatability: May be repeated for credit for a maximum of 6 units when content varies.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

PHYS 380 - Advanced Laboratory I: Electronics

Units: 3

An intensive laboratory course in basic design, analysis, and modeling of circuits, experimental techniques and control, data acquisition and analysis. Topics of study include: linear circuits, diodes, transistors, Op-Amps, Labview/Python programming, ADC and DAC converters, signal processing, and feedback control. *Discussion Units: 1; Lab Units: 2*

Strongly Recommended Preparation: PHYS 230.

Prerequisites: MATH 230, and PHYS 137 or PHYS 126.

Equivalent Quarter Course: PHYS 3280.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

PHYS 381 - Advanced Laboratory II: Experimental Methods

Units: 3

A writing-intensive laboratory course focused on experimental techniques and the scientific method. This project-based course places particular emphasis on effective scientific writing using supporting evidence and reasoning, appropriate quantitative/statistical analysis, presentation of data, and convincing argumentation. *Discussion Units: 1; Lab Units: 2*

Strongly Recommended Preparation: PHYS 230.

Prerequisites: PHYS 380.

Equivalent Quarter Course: PHYS 3281.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

PHYS 398 - Internship

Units: 1-3

Introduction to the internship experience; integration of the academic program with career aspirations; emphasis on internship readiness and preparation for professional success.

Prerequisites: Department consent and minimum 2.0 GPA.

Credit Restrictions: No more than 3 units may be applied to the Physics major; no more than 1 unit may be applied to the Physics minor.

Equivalent Quarter Course: PHYS 3898

Repeatability: May be repeated with department consent for a maximum of 6 units.

Possible Instructional Methods: *Entirely On-ground.*

Grading: CR/NC grading only.

PHYS 450 - Electromagnetism I

Units: 3

Focus on electrostatics and magnetostatics, with an emphasis on the properties and sources of vector fields both in vacuum and in the presence of matter.

Prerequisites: MATH 230, and PHYS 126 or PHYS 137.

Equivalent Quarter Course: The two semester sequence PHYS 450 and PHYS 451 is equivalent to the three quarter sequence PHYS 4001 and PHYS 4002 and PHYS 4003.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

PHYS 451 - Electromagnetism II

Units: 3

Time-varying aspects associated with electromagnetism. In particular this course covers electrodynamics, Faraday's Law, Maxwell's equations, propagation of electromagnetic plane wave radiation, and radiation from accelerated charges.

Prerequisites: PHYS 450.

Equivalent Quarter Course: The two semester sequence PHYS 450 and PHYS 451 is equivalent to the three quarter sequence PHYS 4001 and PHYS 4002 and PHYS 4003.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

PHYS 460 - Astrophysics

Units: 3

The study of the physical processes that govern the behavior of astronomical objects, the study of their origin, evolution, and composition, and fate of the Universe as a whole. Topics will include main-sequence stars, collapsed stars, supernovae, galaxies, and cosmology.

Prerequisites: PHYS 330

Equivalent Quarter Course: PHYS 3800.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

PHYS 461 - Atomic Physics

Units: 3

The quantum mechanical description of atomic structure and the interaction of atoms with external fields is explored. Topics of study include laser spectroscopy, resonant probing and manipulation of atoms, atom trapping and cooling, atomic collisions, molecular structure, and experimental methods.

Prerequisites: MATH 210, and PHYS 126 or PHYS 137.

Equivalent Quarter Course: PHYS 4700.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

PHYS 462 - Solid State Physics

Units: 3

Introduction to the classical and quantum-based theories and models describing the physics of solids. This course includes; crystal and electronic structure, lattice dynamics, phonons, band theory, optical properties of solids, semiconductor physics and superconductivity.

Prerequisites: MATH 210, and PHYS 126 or PHYS 137.

Equivalent Quarter Course: PHYS 4600.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

PHYS 463 - Particle Physics

Units: 3

The study of nature at the highest energies and shortest distances that we can probe in a laboratory. This course will give a general introduction to the elementary particles of the standard model, and the forces that govern them.

Prerequisites: MATH 210, and PHYS 126 or PHYS 137.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

PHYS 480 - Advanced Laboratory III: Modeling, Design, and Analysis

Units: 3

An intensive laboratory course focused on the modeling, design, construction, and analysis of experiments.

Strongly Recommended Preparation: PHYS 230.

Prerequisites: PHYS 381.

Equivalent Quarter Course: PHYS 3283.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

PHYS 481 - Advanced Laboratory IV: Projects

Units: 3

An intensive laboratory course focused on student-designed, open-ended experimental investigations.

Discussion Units: 1; Lab Units: 2

Strongly Recommended Preparation: PHYS 230.

Prerequisites: PHYS 480.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

PHYS 490 - Independent Study

Units: 1-4

Independent study under the supervision a department faculty member.

Prerequisites: Department consent and minimum 2.0 GPA.

Credit Restrictions: No more than 12 units of independent study may be applied in the major department and 8 units in other departments to a baccalaureate degree.

Equivalent Quarter Course: PHYS 4900.

Repeatability: May be repeated for credit, with department consent, for a total of 12 units.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

PHYS 495 - Physics Practicum

Units: 1

Upper-division students will develop teaching skills by working as peer mentors in or associated with various introductory Physics classes.

Prerequisites: PHYS 126 or PHYS 137.

Repeatability: Repeatable for a maximum of 3 units

Possible Instructional Methods: *Entirely On-ground*

Grading: A-F or CR/NC (student choice)

PHYS 497 - Issues in Physics

Units: 3

Readings, discussion, and research on contemporary and/or significant issues in physics.

Equivalent Quarter Course: PHYS 3999.

Repeatability: May be repeated once for credit when content varies.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

Political Science

POSC 100 - Introduction to Political Science

Units: 3

Introduction to the study of politics and government, surveying the concepts and approaches of political science.

Equivalent Quarter Course: POSC 1000.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

POSC 101 - American Political Institutions

Units: 3 ; G.E./G.R. Area: D1-3; US-1, US-2

Development of political institutions and ideals in the U.S. Key elements of political system, including Constitution, Presidency, Congress, Courts, parties, elections, and bureaucracy.

Equivalent Quarter Course: POSC 1201.

Possible Instructional Methods: *Entirely On-ground, Entirely On-line, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F or CR/NC (student choice).

G.E./G.R. Area Satisfied: *D1-3 - Lower Division Social Sciences, American Institutions/Code US-1 and US-2*

POSC 117 - Environmental Politics

Units: 3

The history and present status of the ideologies, interests, movements and understandings that form modern environmental policy and politics.

Equivalent Quarter Course: POSC 1171.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

POSC 150 - Conflict in World Politics

Units: 3 ; G.E./G.R. Area: D1-3

Causes of conflict. Topics include Iraq and Desert Storm, Bosnia, the Middle East, and Third World conflicts. Analysis of foreign aggression, civil war, terrorism, ethnic struggle, nationalism, boundary disputes, military force, sanctions, peacekeeping, mediation, disaster relief, and economic aid.

Equivalent Quarter Course: POSC 1500.

Possible Instructional Methods: *Entirely On-ground, Entirely On-line, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F or CR/NC (student choice).

G.E./G.R. Area Satisfied: *D1-3 - Lower Division Social Sciences*

POSC 300 - The Study of Political Science

Units: 3

History and assumptions of political science as a field; basic skills and methodology; ethics in politics, administration and law; careers; personal learning goals; portfolios; Library tour.

Equivalent Quarter Course: POSC 3030.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

POSC 490 - Independent Study

Units: 1-3

Individual investigation of a specific issue, area, or topic in political science planned in consultation with a department faculty member.

Prerequisites: Department consent and minimum 2.0 GPA.

Equivalent Quarter Course: POSC 4900.

Repeatability: May be repeated for credit with consent of instructor, for a maximum of 9 units.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

POSC 495 - Political Internship

Units: 1-3

Practical experience on a legislative or executive staff or in a campaign organization.

Prerequisites: Department consent.

Equivalent Quarter Course: POSC 3113.

Repeatability: May be repeated for credit for a maximum of 6 units.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

POSC 497 - Issues in Political Science

Units: 3

Readings, discussion, and research on contemporary and/or significant issues in political science.

Equivalent Quarter Course: POSC 3999.

Repeatability: May be repeated for credit, when content varies, for a maximum of 6 units.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

POSC 498 - Internship

Units: 1-3

Formal work opportunities integrating the academic program with their career aspirations. Integral hands-on experience enhancing education and preparing for professional and personal success.

Prerequisites: Department consent and minimum 2.0 GPA.

Equivalent Quarter Course: POSC 3898.

Repeatability: May be repeated for credit for a maximum of 6 units.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

POSC 499 - Capstone

Units: 3

Contributions of natural and social science theories, methods, results for political science; scope and method of political science; individual research on selected topics.

Prerequisites: Senior standing and POSC 300.

Equivalent Quarter Course: POSC 4910.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

Political Science: American Government and Politics

POSC 102 - Public Policy/California Politics

Units: 3 ; G.E./G.R. Area: D1-3; US-1, US-3

Issues in American public policy, focusing on contemporary controversies (environment, poverty, etc.) California state and local government.

Equivalent Quarter Course: POSC 1202.

Possible Instructional Methods: *Entirely On-ground, Entirely On-line, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F or CR/NC (student choice).

G.E./G.R. Area Satisfied: *D1-3 Lower Division Social Sciences, American Institutions/Code US-1 and US-3*

POSC 311 - The American Presidency

Units: 3

Study of the American Presidency both historically and analytically with an emphasis on roles and powers; the struggle between the President and Congress; the leadership role of the President in

government, political parties, and public opinion.

Equivalent Quarter Course: POSC 3111.

Possible Instructional Methods: *Entirely On-ground, Entirely On-line, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F or CR/NC (student choice).

POSC 312 - United States Congress

Units: 3

Development of the modern Congress, including 20th century reforms; Congressional power; leadership and partisanship; inter-branch relations; Congressional elections and campaign finance reform, incumbency and redistricting; the committee system.

Equivalent Quarter Course: POSC 3115.

Possible Instructional Methods: *Entirely On-ground, Entirely On-line, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F or CR/NC (student choice).

POSC 314 - State and Local Politics and Government

Units: 3

Structures, processes, policies, political culture and power distributions of governments of states, cities, suburbs, small towns, metropolitan areas and neighborhoods. Special reference to California and San Francisco Bay Area institutions and problems. Satisfies California state and local government code requirement.

Equivalent Quarter Course: POSC 3120.

Possible Instructional Methods: *Entirely On-ground, Entirely On-line, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F or CR/NC (student choice).

POSC 315 - Urban Politics

Units: 3

Styles and structures of city government; community power studies; community control and metropolitan government; problems of crime, welfare, finance, education, pollution, planning; emphasis on the Bay Area.

Equivalent Quarter Course: POSC 3130.

Possible Instructional Methods: *Entirely On-ground, Entirely On-line, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F or CR/NC (student choice).

POSC 316 - Politics of California

Units: 3

Political culture, electoral systems, and public policy in California. Field trip to the California Legislature. Satisfies code requirement in California state and local government.

Equivalent Quarter Course: POSC 3150.

Possible Instructional Methods: *Entirely On-ground, Entirely On-line, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F or CR/NC (student choice).

POSC 330 - Voting and Public Opinion

Units: 3

Nature and causes of voter turnout and vote choice. Determinants and effects of public opinion. Methodology used for measurement and analysis of these subjects.

Prerequisites: STAT 100.

Equivalent Quarter Course: POSC 3300.

Possible Instructional Methods: *Entirely On-ground, Entirely On-line, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F or CR/NC (student choice).

POSC 331 - Political Parties and Campaigning

Units: 3

Party organizations in U.S. and California, historical changes in party operations, political machines and patronage, money in politics, party labels, differences and similarities between major parties, minor parties, new style of campaigns, professional campaign management firms, the prospects for reform.

Equivalent Quarter Course: POSC 3310.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

POSC 332 - Citizen Action

Units: 3

How can citizens help solve the most important problems of our society? Power, competition and compromise in democracy and reform; case studies. The flow from policy knowledge and values to advocacy and action.

Equivalent Quarter Course: POSC 3370.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

POSC 333 - Practical Politics

Units: 3

Professional skills in winning elections and influencing policy. Reading and practice in framing issues, political strategy, campaign management, advertising, polling, speech writing, media relations, Internet use, fund-raising, litigation, lobbying, building and sustaining support.

Equivalent Quarter Course: POSC 3375.

Possible Instructional Methods: *Entirely On-ground, Entirely On-line, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F or CR/NC (student choice).

POSC 334 - Interest Groups, Lobbying, and Political Reform

Units: 3

Private power and American public policy; the nature and sources, strategy and tactics of pressure group power in the American political process. Business, labor, agriculture, the professions, minority groups, and religion as organized groups influencing political decision making.

Equivalent Quarter Course: POSC 3330.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

POSC 335 - Women and Politics

Units: 3

Public policy relating to American women; impact of the women's movement on public policy and political behavior; women as voters, political activists, political office-holders; the function of sex roles in the political system.

Equivalent Quarter Course: POSC 3340.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

POSC 336 - Ethnic and Minority Politics

Units: 3

Contemporary and historic analysis of ethnic and minority participation in the political process. Voting, elections, interest groups, political machines, office holders, activists, strategies, and common participatory patterns.

Credit Restrictions: Not open to those who completed ES 3333 in the quarter system.

Equivalent Quarter Course: POSC 3333.

Possible Instructional Methods: *Entirely On-ground, Entirely On-line, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F or CR/NC (student choice).

POSC 337 - African American Politics

Units: 3

The role of African Americans in state and national politics; political history of African Americans in American politics, public policy issues concerning African Americans, successes and failures of African American empowerment strategies, and electoral impact of African American votes.

Equivalent Quarter Course: POSC 3335.

Possible Instructional Methods: *Entirely On-ground, Entirely On-line, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F or CR/NC (student choice).

POSC 338 - Asian American Politics

Units: 3

The role of Asian Americans in state and national politics; political history of Asian Americans in American politics, public policy issues concerning Asian Americans, successes and failures of Asian American empowerment strategies, and electoral impact of Asian American votes.

Equivalent Quarter Course: POSC 3336.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

Political Science: Comparative Government and Politics

POSC 321 - Political Systems of Western Europe

Units: 3 ; G.E./G.R. Area: D4

The governments and politics of Great Britain, France, Germany, and other Western European nations. Development and expansion of the European Union.

Prerequisites: Completion of GE areas A1, A2, A3 and B4.

Equivalent Quarter Course: POSC 3201.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

G.E./G.R. Area Satisfied: *D4 - Upper Division Social Sciences*

POSC 322 - Government and Politics of Eastern and Central Europe

Units: 3 ; G.E./G.R. Area: D4

The politics of the formerly communist states of Eastern and Central Europe. Countries covered include Russia, Ukraine, Poland, Romania, the Balkans and others. New democratic institutions and economic development. Links with Western Europe.

Prerequisites: Completion of GE areas A1, A2, A3 and B4.

Equivalent Quarter Course: POSC 3222.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

G.E./G.R. Area Satisfied: D4 - Upper Division Social Sciences

POSC 323 - Political Systems of Asia

Units: 3 ; G.E./G.R. Area: D4

An analysis of politics in selected Asian countries. The degree of emphasis on particular countries and areas such as China, India, Japan and Southeast Asia varies.

Prerequisites: Completion of GE areas A1, A2, A3 and B4.

Equivalent Quarter Course: POSC 3204.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

G.E./G.R. Area Satisfied: D4 - Upper Division Social Sciences

POSC 324 - Government and Politics in the Middle East

Units: 3

Contemporary politics in the Middle East. Comparative approach, analyzing the political, social, religious and economic aspects of the area.

Equivalent Quarter Course: POSC 3230.

Possible Instructional Methods: *Entirely On-ground, Entirely On-line, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F or CR/NC (student choice).

POSC 326 - Government and Politics of Africa South of the Sahara

Units: 3 ; G.E./G.R. Area: D4

The governments of the nations of Africa south of the Sahara, with special reference to comparative colonial policies, nationalist movements, political parties, and the problems of nation building; comparative economic systems and the role of the military.

Prerequisites: Completion of GE areas A1, A2, A3 and B4.

Equivalent Quarter Course: POSC 3260.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

G.E./G.R. Area Satisfied: D4 - Upper Division Social Sciences

POSC 327 - Political Systems of Latin America

Units: 3 ; G.E./G.R. Area: D4

Political development, instability, and revolution in a comparative framework. Case studies of political development in major countries; group conflicts, ideology, administrative problems, and the role of

violence.

Prerequisites: Completion of GE areas A1, A2, A3 and B4.

Equivalent Quarter Course: POSC 3280.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

G.E./G.R. Area Satisfied: *D4 - Upper Division Social Sciences*

POSC 347 - Comparative Law

Units: 3

Essential features of law and their impact upon society using a comparative method. Incorporation of comparative legal theory of various legal systems, and how legal institutions express diverse civilizations.

Equivalent Quarter Course: POSC 3290.

Possible Instructional Methods: *Entirely On-ground, Entirely On-line, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F or CR/NC (student choice).

Political Science: International Relations

POSC 350 - World Problems and Global Response

Units: 3 ; G.E./G.R. Area: D4

Arms control, human rights, development, debt, women's rights, world population, environmental protection, and technology transfers. Analysis of key actors (United Nations, specialized agencies, national governments, non-governmental organizations) and policy alternatives. Student opportunity to work with local organizations.

Prerequisites: Completion of GE areas A1, A2, A3 and B4.

Equivalent Quarter Course: POSC 3500.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

G.E./G.R. Area Satisfied: *D4 - Upper Division Social Sciences*

POSC 351 - International Relations

Units: 3 ; G.E./G.R. Area: D4

The conduct of relations among states. The international system, national power, sovereignty, nationalism, ideology; use of diplomacy, propaganda, economic influence, military force; problems of neocolonialism, multinational corporations, racial tensions, nuclear deterrence, war, the role of the United Nations.

Prerequisites: Completion of GE areas A1, A2, A3 and B4.

Equivalent Quarter Course: POSC 3520.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

G.E./G.R. Area Satisfied: *D4 - Upper Division Social Sciences*

POSC 352 - International Security in the 21st Century

Units: 3 ; G.E./G.R. Area: D4

Comprehensive approach to studying traditional and non-traditional security concerns in the world. Issues include great power politics, nuclear proliferation, terrorism, failed states, environmental security, and transnational crime. Simulation of crisis situation.

Prerequisites: Completion of GE areas A1, A2, A3 and B4.

Equivalent Quarter Course: POSC 3510.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

G.E./G.R. Area Satisfied: *D4 - Upper Division Social Sciences*

POSC 353 - Politics of the Global Economy

Units: 3

International trade and development assistance. Focus on GATT, the World Trade Organization, the G7 nations, and the International Monetary Fund. Problems of transnational corporations, labor standards, and migration. Global liberalism compared with collectivist economies. Ecological, participatory, regional and nationalist challenges.

Equivalent Quarter Course: POSC 3521.

Possible Instructional Methods: *Entirely On-ground, Entirely On-line, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F or CR/NC (student choice).

POSC 354 - American Foreign Policy

Units: 3 ; G.E./G.R. Area: D4

National security, economic and development assistance policies since World War II. Current policy choices and the constitutional conflict between Congress and the President. Role of the State Department, the military, the CIA, and non-governmental organizations (labor, business, and veterans).

Prerequisites: Completion of GE areas A1, A2, A3 and B4.

Equivalent Quarter Course: POSC 3505.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

G.E./G.R. Area Satisfied: *D4 - Upper Division Social Sciences*

POSC 355 - The United Nations and World Community

Units: 3 ; G.E./G.R. Area: D4

Historical, institutional and theoretical background of the contemporary United Nations and related agencies; focus on participation of selected countries in the UN with regard to current international problems and issues; participation in Model UNFW conference.

Prerequisites: Completion of GE areas A1, A2, A3 and B4.

Equivalent Quarter Course: POSC 3550.

Repeatability: May be repeated once for credit for a maximum of 6 units.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

G.E./G.R. Area Satisfied: *D4 - Upper Division Social Sciences*

Political Science: Political Theory

POSC 371 - Greek, Roman and Medieval Political Thought

Units: 3

Major Western political ideas from the Greeks through the 15th century. Emphasis upon major political theorists in the development of classical Greek and Roman, Medieval Christian, and Renaissance political theory.

Equivalent Quarter Course: POSC 3711.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

POSC 373 - Contemporary Political Thought

Units: 3

Major Western political ideas in the 19th and 20th centuries. Emphasis upon central figures in the development of Democratic, Marxist, Socialist, and various other contemporary bodies of political theory.

Equivalent Quarter Course: POSC 3713.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

POSC 374 - Marxism in Theory and Practice

Units: 3

The writings of Marx and the characteristics of Marxism in the 20th century.

Equivalent Quarter Course: POSC 3704.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

POSC 375 - Theories of Empire

Units: 3

Major theories and debates about imperialism, its history, its modern manifestations, and its status and future in the post-Cold War era.

Equivalent Quarter Course: POSC 3717.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

Political Science: Public Law

POSC 340 - Law and Society

Units: 3 ; G.E./G.R. Area: C4

Rise of the American legal system and evolution of values in the law. Courts in the political system and the policy impact of modern legal initiatives.

Prerequisites: Completion of GE areas A1, A2, A3 and B4.

Equivalent Quarter Course: POSC 3410.

Possible Instructional Methods: *Entirely On-ground, Entirely On-line, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F or CR/NC (student choice).

G.E./G.R. Area Satisfied: *C4 - Upper Division Arts or Humanities*

POSC 341 - American Constitutional Law: Government

Units: 3

The American Constitution as a model of government. The role of democracy, federalism, assumptions regarding human nature, citizenship, separation of powers, capitalism, and issues of empire building.

Equivalent Quarter Course: POSC 3441.

Possible Instructional Methods: *Entirely On-ground, Entirely On-line, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F or CR/NC (student choice).

POSC 342 - American Constitutional Law: Rights

Units: 3

The Bill of Rights as interpreted by Court decisions since its adoption. Topics include freedom of speech, religion, equal protection, and personal privacy. Emphasis on the relationship among rights, politics, judicial behavior and public policy.

Equivalent Quarter Course: POSC 3442.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

POSC 343 - Survey of American Law

Units: 3

The basic elements of the American legal system, its essential values, and its impact on society. Personal injury, contracts, criminal law, regulation, and international law. Emphasis on case law as the basis for exploring the legal system.

Equivalent Quarter Course: POSC 3417.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

POSC 344 - Environmental Law

Units: 3

Legislative, judicial, and administrative controls over public and private actions impacting on the environment. Examination of statutory, administrative, and judicial decisions relating to the environment and of government actors and agencies making these decisions.

Equivalent Quarter Course: POSC 3460.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

POSC 345 - International Law

Units: 3 ; G.E./G.R. Area: D4

The rules that govern governments and world bodies. Includes treaties, law of the sea, environmental protection, use of force, terrorism, and markets. Focus on the movement toward global community.

Prerequisites: Completion of GE areas A1, A2, A3 and B4.

Equivalent Quarter Course: POSC 3470.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

G.E./G.R. Area Satisfied: *D4 - Upper Division Social Sciences*

POSC 377 - Philosophy of Law

Units: 3 ; G.E./G.R. Area: C4; Social Justice

Introduction to the main schools of jurisprudence and legal philosophy with an emphasis on their application to issues of social justice.

Prerequisites: Completion of GE areas A1, A2, A3 and B4.

Equivalent Quarter Course: PHIL 3503 or POSC 3503.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

G.E./G.R. Area Satisfied: C4 - Upper Division Arts or Humanities, Overlay - Social Justice

Cross-listed: PHIL 377

Political Science: Public Policy and Administration

POSC 380 - Public Policy Analysis

Units: 3

Surveys the formulation, implementation, and impact of public policy dealing with social and economic problems. Examines and evaluates the causes and content of government policy in various areas such as civil rights, social welfare, crime, education, health, environment, energy, taxation.

Equivalent Quarter Course: POSC 3800.

Possible Instructional Methods: *Entirely On-ground, Entirely On-line, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F or CR/NC (student choice).

POSC 382 - U.S. Immigration Policy and Law

Units: 3

Development of U.S. immigration policy including theories, demographic trends, sources of immigration legislation, case law. Relationship of politics, policy, culture, social and economic status to racial and ethnic groups, women, and workers.

Equivalent Quarter Course: POSC 3418.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

POSC 383 - Labor Policy and Law

Units: 3

Historical development and changing fortunes of working class, trade unions, immigrant, and women workers. Growth among government workers and declining numbers in private industry. U.S. Government's labor laws and judicial interpretation for private and public sectors.

Equivalent Quarter Course: POSC 3419.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

POSC 410 - Politics of Budgeting

Units: 3

Politics and governmental budgeting; executive-legislative relationships, interest group activities, and citizen demands; budget as an instrument for management, planning, and policy-making at federal, state, and local levels.

Equivalent Quarter Course: POSC 4861.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

POSC 411 - Public Policy and the Environment

Units: 3

Politics of human-environment relationships. Sustainability, biodiversity, population, consumption, technology, energy, water, resources, recycling, pollution, and urban systems. Cultural values, paradigm change, science, risk analysis, market pricing, competition of networks, and citizen action. Significant written assignment integrates theory and practice.

Equivalent Quarter Course: POSC 4171.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

POSC 412 - Bureaucratic Politics and Administrative Law

Units: 3

Politics of bureaucracy, government regulations, administrative law, exploration of the content, and structure of public administration. Public finances, human resource management, workplace discrimination, ethics, regulation within institutions.

Equivalent Quarter Course: POSC 4445.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

Psychology

PSYC 100 - General Psychology

Units: 3 ; G.E./G.R. Area: D1-3

An introduction to the scientific study of basic processes underlying human and animal behavior; sensation and perception, learning and thinking, motivation, and emotion.

Equivalent Quarter Course: PSYC 1000.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

G.E./G.R. Area Satisfied: *D1-3 - Lower Division Social Sciences*

PSYC 121 - Drugs and Behavior

Units: 3 ; G.E./G.R. Area: B2

Overview of psychoactive drugs (prescription, illicit, over-the-counter) and dietary supplements, basic principles of psychopharmacology, and introduction to scientific theories and practices related to drug development. Emphasis on marketing strategies, historical influences on drug use, and government restrictions.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

G.E./G.R. Area Satisfied: *B2 - Lower Division Life Sciences*

PSYC 200 - Methods of Investigation in Psychology

Units: 3

Experimental, correlational, and observational methods in the study of psychology with selected examples.

Prerequisites: PSYC 100.

Equivalent Quarter Course: PSYC 2020.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

PSYC 300 - Experimental Psychology

Units: 4

A research course in the development, design, and execution of psychological experiments; the analysis of data; and the writing of research reports in APA format.

Prerequisites: PSYC 200 and STAT 310.

Equivalent Quarter Course: PSYC 3100.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

PSYC 310 - Conditioning and Learning

Units: 4

Introduction to the experimental analysis of animal learning and behavior with an emphasis on classical and instrumental/operant conditioning. Additional topics will include non-associative learning, choice behavior, stimulus control, extinction, and aversive control.

Prerequisites: PSYC 200.

Equivalent Quarter Course: PSYC 4200.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

PSYC 320 - Physiological Psychology

Units: 4

The biological foundations of human and animal behavior, including physiological processes related to sensory and motor activity, perception, learning, thinking, motivation, and emotion.

Prerequisites: PSYC 200.

Equivalent Quarter Course: PSYC 4320.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

PSYC 330 - Cognitive Psychology

Units: 4

Selected topics in thinking and information processing in humans, such as memory, attention, problem solving, language, concept formation, creativity, and imagery. Experiments and theories are described, analyzed, and interpreted.

Prerequisites: PSYC 200.

Equivalent Quarter Course: PSYC 4220.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

PSYC 340 - Developmental Psychology

Units: 4

Explores human development across the lifespan. Topics include theoretical foundations of development and research pertaining to cognitive, social-emotional and personality development. Emphasis on the role of biological factors and experience in development.

Prerequisites: PSYC 200.

Equivalent Quarter Course: PSYC 4420.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

PSYC 350 - Personality Psychology

Units: 4

Critical review of method and content in the study of personality. Historical development of the field, with attention to recent applications of scientific method to research questions within the field.

Prerequisites: PSYC 200.

Equivalent Quarter Course: PSYC 4610.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

PSYC 360 - Social Psychology

Units: 4

In-depth survey of the major theories, concepts, and research in social psychology. Topics include: the self, attribution, attitudes and persuasion, group processes, intergroup relations, interpersonal attraction, and helping.

Prerequisites: PSYC 200.

Equivalent Quarter Course: PSYC 3500.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

PSYC 370 - Psychological Measurement

Units: 4

Covers construction of surveys and tests using Classical Test Theory and Item Response Theory; data analysis; test bias and test fairness; an introduction to unidimensional and multidimensional scaling; and measurement models. Applications to cognitive processing and industrial psychology.

Prerequisites: PSYC 200 and STAT 310.

Equivalent Quarter Course: PSYC 3210 or PSYC 3230.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

PSYC 381 - Psychopathology

Units: 4

Overview of the major psychiatric disorders such as depressive disorders, anxiety disorders, posttraumatic stress disorder, personality disorders, substance use disorder, and schizophrenia. Emphasis is on diagnostic criteria; biological, psychological, and sociocultural factors; and treatment implications.

Prerequisites: PSYC 200.

Equivalent Quarter Course: PSYC 4410.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

PSYC 382 - Child Psychopathology

Units: 4

Overview of the major psychiatric disorders affecting children and adolescents. Emphasis is on diagnostic criteria; biological, psychological, and sociocultural factors; and treatment implications.

Prerequisites: PSYC 200.

Equivalent Quarter Course: PSYC 4440.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

PSYC 386 - Stress and Coping

Units: 3 ; G.E./G.R. Area: B6

A systematic look at the major theories and research about stress and coping, with applications. Stress and coping will be examined in the context of everyday situations, e.g., family and other relationships, illness, death and dying, and the workplace.

Prerequisites: Completion of GE Areas A1, A2, A3 and B4 ; and PSYC 100.

Credit Restrictions: Not for psychology major or minor credit.

Equivalent Quarter Course: PSYC 3420.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

G.E./G.R. Area Satisfied: *B6- Upper Division Science Inquiry and Quantitative Reasoning*

PSYC 390 - Human Factors and Work Methods

Units: 4

Human Factors principles utilized for design of tools, jobs, environments and work methods. Human dimensions, capabilities and limitations, including anthropometric, perceptive and cognitive, inform human-centered designs. Case studies illustrate good/poor designs. Principles applied in course projects, exercises and simulations.

Prerequisites: Completion of GE area B4 and STAT 100 or INDE 330.

Equivalent Quarter Course: INDE 3020 and INDE 3190.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

Cross-listed: INDE 390.

PSYC 411 - Comparative Psychology

Units: 4

Survey of the similarities and differences in cognitive processes across species. Topics include sensory systems, principles of learning, memory, spatial cognition, numerical competency, social learning, and animal communication/language.

Prerequisites: PSYC 310.

Equivalent Quarter Course: PSYC 4310.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

PSYC 412 - Learning Theory

Units: 4

A survey of the major theories of learning including their underlying assumptions, strengths and weaknesses, empirical basis, historical context, and practical implications.

Prerequisites: PSYC 310.

Equivalent Quarter Course: PSYC 4210.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

PSYC 413 - Advanced Conditioning and Learning

Units: 4

This course provides a contemporary survey of theories of learning. Topics may include configural and elemental associative, attentional, hybrid, and connectionist models, with an emphasis on animal models.

Prerequisites: PSYC 310.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

PSYC 414 - History and Systems of Psychology

Units: 4

An examination of the major schools of thought and historical developments that have led to the modern science of psychology.

Prerequisites: Senior standing.

Equivalent Quarter Course: PSYC 4390.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

PSYC 415 - Introduction to Applied Behavior Analysis

Units: 4

Introduction to the core principles of behavior analysis. Application to the analysis of real-world problems.

Prerequisites: PSYC 310.

Equivalent Quarter Course: PSYC 3250.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

PSYC 421 - Cognitive Neuroscience

Units: 4

Overview of research examining the neural mechanisms underlying cognitive processes such as

perception, attention, memory, and language.

Prerequisites: PSYC 320.

Equivalent Quarter Course: PSYC 4370.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

PSYC 431 - Perception

Units: 4

This course covers how the eyes, ears, and other sense organs bring information about the world to the brain, and how this information is used to perceive objects and events.

Prerequisites: PSYC 330.

Equivalent Quarter Course: PSYC 4345.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

PSYC 441 - Advanced Developmental Psychology

Units: 4

Advanced topic course in human development, with a focus on developmental psychology research and applications. Topics will be explored using actual data and may include research on the development of language, memory, theory of mind, identity and personality.

Prerequisites: PSYC 340.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

PSYC 461 - Culture and Social-Organizational Psychology

Units: 4

In-depth examination of the influence of culture on psychology with a focus on social and organizational psychology topics: the self, social cognitive processes, cooperation, conflict, conflict resolution, intercultural contact, intergroup relations, and acculturation.

Prerequisites: PSYC 360.

Equivalent Quarter Course: PSYC 3600.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

PSYC 462 - Psychology of Negotiation and Conflict Resolution

Units: 4

In-depth examination of psychological research on negotiation and conflict resolution. Topics include:

cognitive, motivational, and emotional processes involved in misunderstanding, conflict, negotiation and conflict resolution.

Prerequisites: PSYC 360.

Equivalent Quarter Course: PSYC 3560.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

PSYC 463 - Interpersonal Processes

Units: 4

Selected topics on the development of social relationships, interpersonal attraction, self disclosure, communication dynamics of power and intimacy, and the resolution of conflict.

Prerequisites: PSYC 360.

Equivalent Quarter Course: PSYC 3520 or PSYC 3550.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

PSYC 469 - Group Dynamics

Units: 4

In-depth examination of small group and organizational processes. Topics include group development, group structure, social facilitation, motivation, coordination, teamwork, diversity, brainstorming, group decision-making, conflict, and conflict management.

Prerequisites: PSYC 360.

Equivalent Quarter Course: PSYC 3540.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

PSYC 471 - Decision Theory and Analysis

Units: 4

Introduction to the literature and methods of decision science in psychology. Theory and decision strategies are surveyed, with examples across many applications. Focus on descriptive models. Students will study decision strategies and methods of modeling preference structures.

Prerequisites: PSYC 200 and STAT 310.

Equivalent Quarter Course: PSYC 3240.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

PSYC 472 - Motivation

Units: 4

Survey of theoretical approaches to understanding human motivation (biological, behavioral, cognitive, social, affective). Students will apply theories to motivation in real-world contexts (e.g., work, school, relationships) and make suggestions for changing motivation through the principles covered in class.

Prerequisites: PSYC 200.

Equivalent Quarter Course: PSYC 4300.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

PSYC 479 - Industrial Psychology

Units: 4

Application of psychological principles to the work setting. Topics include the statistical models used in validity studies, selection decision strategies, the application of learning theory to training, and the application of measurement theory to performance appraisal.

Prerequisites: PSYC 370.

Equivalent Quarter Course: PSYC 4500.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

PSYC 481 - Introduction to Psychotherapy

Units: 4

Overview of professional issues in clinical psychology and the theoretically based approaches to psychotherapy (i.e., psychoanalytic, cognitive, behavioral, existential, humanistic, and systems).

Prerequisites: PSYC 381 or PSYC 382.

Equivalent Quarter Course: PSYC 4630.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

PSYC 490 - Independent Study

Units: 1-4

Independent study under the supervision a department faculty member.

Prerequisites: Department consent and minimum 2.0 GPA.

Credit Restrictions: No more than 12 units of independent study may be applied in the major department and 8 units in other departments to a baccalaureate degree.

Equivalent Quarter Course: PSYC 4900.

Repeatability: May be repeated for credit, with department consent, for a total of 12 units.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

PSYC 491A - Research in Conditioning and Learning

Units: 4

An advanced research course in which students design and execute an empirical research study related to conditioning and learning. Includes data collection, quantitative data analysis, and presentation in an APA style research report.

Prerequisites: PSYC 300 and PSYC 310.

Equivalent Quarter Course: PSYC 4800 or PSYC 4801 or PSYC 4805.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

PSYC 491B - Research in Physiological Psychology

Units: 4

An advanced research course in which students design and execute an empirical research study related to physiological psychology. Includes data collection, quantitative data analysis, and presentation in an APA style research report.

Prerequisites: PSYC 300 and PSYC 320.

Equivalent Quarter Course: PSYC 4803.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

PSYC 491C - Research in Cognitive Psychology

Units: 4

An advanced research course in which students design and execute an empirical research study related to cognitive psychology. Includes data collection, quantitative data analysis, and presentation in an APA style research report.

Prerequisites: PSYC 300 and PSYC 330.

Equivalent Quarter Course: PSYC 4800 or PSYC 4802.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

PSYC 491D - Research in Developmental Psychology

Units: 4

An advanced research course in which students design and execute an empirical research study related to developmental psychology. Includes data collection, quantitative data analysis, and presentation in an APA style research report.

Prerequisites: PSYC 300 and PSYC 340.

Equivalent Quarter Course: PSYC 4806.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

PSYC 491E - Research in Social & Personality Psychology

Units: 4

An advanced research course in which students design and execute an empirical research study related to social and personality psychology. Includes data collection, quantitative data analysis, and presentation in an APA style research report.

Prerequisites: PSYC 300, and PSYC 350 or PSYC 360.

Equivalent Quarter Course: PSYC 4804.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

PSYC 491F - Research in Clinical Psychology

Units: 4

An advanced research course in which students design and execute an empirical research study related to clinical psychology. Includes data collection, quantitative data analysis, and presentation in an APA style research report.

Prerequisites: PSYC 300, and PSYC 381 or PSYC 382.

Equivalent Quarter Course: PSYC 4807.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

PSYC 493A - Research in Organizational Psychology

Units: 4

An advanced research course in which students design and execute an empirical research study related to organizational psychology. Includes data collection, quantitative data analysis, and presentation in an APA style research report.

Prerequisites: PSYC 300 and PSYC 360.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

PSYC 493B - Research in Industrial Psychology

Units: 4

An advanced research course in which students design and execute an empirical research study related to industrial psychology. Includes data collection, quantitative data analysis, and presentation in an APA style research report.

Prerequisites: PSYC 300 and PSYC 370.
Equivalent Quarter Course: PSYC 4808.
Possible Instructional Methods: *Entirely On-ground.*
Grading: A-F grading only.

PSYC 497 - Issues in Psychology

Units: 4

Readings, discussion, and research on contemporary and/or significant issues in Psychology.

Repeatability: May be repeated for credit when content varies, for a maximum of 8 units.
Possible Instructional Methods: *Entirely On-ground.*
Grading: A-F or CR/NC (student choice).

PSYC 498 - Internship

Units: 1-4

Integration of student's academic study with practical experience in a cooperating organization. Involves off-campus activity designed to serve educational purposes by offering experience in a service learning, business, non-profit, or government setting.

Prerequisites: Department consent.
Equivalent Quarter Course: PSYC 3898.
Repeatability: May be repeated for credit for a maximum of 8 units.
Possible Instructional Methods: *Entirely On-ground.*
Grading: A-F or CR/NC (student choice).

Public Administration

PA 490 - Independent Study

Units: 1-4

Independent study under the supervision a department faculty member.

Prerequisites: Department consent and minimum 2.0 GPA.
Credit Restrictions: No more than 12 units of independent study may be applied in the major department and 8 units in other departments to a baccalaureate degree.
Equivalent Quarter Course: PUAD 4900.
Repeatability: May be repeated for credit, with department consent, for a total of 12 units.
Possible Instructional Methods: *Entirely On-ground.*
Grading: A-F or CR/NC (student choice).

Public Administration: Graduate

PA 611 - Public Administration Philosophy, Theory, and Practice

Units: 4

Historical and political context of public administration. This course reviews the classical and emerging theoretical perspectives on human organizations and critically analyzes emerging domestic and global ideas and issues shaping and being shaped by the public sector.

Prerequisites: Admission to Master of Public Administration program.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

PA 612 - Research Methods in Public Administration

Units: 4

Examines various methods for designing and conducting interpretive (Qualitative) and positivistic (Quantitative) research for organizational improvements, policy research and decision making in the public sector. Various modes of data-gathering and analysis are discussed and the logic underlying the methods explored.

Prerequisites: Admission to Master of Public Administration program.

Possible Instructional Methods: *Entirely On-ground, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F grading only.

PA 621 - Seminar in Human Organizations, Change, and Social Realities

Units: 4

Considers theoretical frameworks for thinking critically about how knowledge, social realities, and administration are constituted. Meaning-centered, experientially grounded theories are applied to examine organizational humanization and effectiveness. Opportunities to integrate these theories for action and changing organizations are explored.

Prerequisites: PA 611 and PA 612.

Possible Instructional Methods: *Entirely On-ground, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F grading only.

PA 622 - Seminar in the Public Policy Process

Units: 4

Critical analysis of the public policy-making processes emphasizing the interrelationships among policy formulation, implementation, evaluation, and revision. Explores alternative models of the policy process; develop strategies and tactics for identifying and solving implementation problems; assessment of policy impact and effectiveness.

Prerequisites: PA 611 and PA 612.

Possible Instructional Methods: *Entirely On-ground, Hybrid (every section of this course may be taught both*

online and on-ground).

Grading: A-F grading only.

PA 631 - Management, Human Resources, and Ethics in the Public Sector

Units: 4

Examines the responsibilities of public sector managers, public HRM and the ethical dimensions of public service. Topics discussed include influence of social and political values upon public service concepts; examination of public managers as strategic leaders; value dilemmas, and accountability.

Prerequisites: PA 621, PA 622 and completion of the University Writing Skills Requirement (UWSR).

Possible Instructional Methods: *Entirely On-ground, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F grading only.

PA 641 - Public Budgeting and Finance Administration

Units: 4

Exploration and analysis of the governmental budgetary process and review of strategic principles of fiscal policy in attaining public goals. Emphasizes the role of government budgeting shaping public policy and administrative control at federal, state and local levels.

Prerequisites: PA 697 or PA 695, and PA 631 or HCA 611, and completion of the University Writing Skills Requirement (UWSR).

Possible Instructional Methods: *Entirely On-ground, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F grading only.

PA 690 - Independent Study

Units: 1-4

Content to be determined by student(s) and faculty instructor.

Prerequisites: Department consent and minimum 3.0 GPA.

Equivalent Quarter Course: PUAD 6900.

Possible Instructional Methods: *Entirely On-ground, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F grading only.

PA 692 - Graduate Synthesis

Units: 4

A synthesis of public administration theories and concepts with a review and critique of major readings in the field. Concludes with the Comprehensive Examination. Advancement to Candidacy (completion of all core courses and option area requirements) and consent of instructor.

Prerequisites: Department consent.

Possible Instructional Methods: *Entirely On-ground, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F grading only.

PA 695 - Internship in Public Administration

Units: 4

Field placements with governmental agencies under the supervision of a faculty member. Examines the relationship between theory and practice in the provisions of public service.

Prerequisites: PA 621, PA 622 and completion of the University Writing Skills Requirement (UWSR).

Possible Instructional Methods: *Entirely On-ground, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F grading only.

PA 697 - Issues in Public Administration

Units: 4

Readings, discussion, and research on contemporary and/or significant issues in public administration.

Prerequisites: PA 621, PA 622 and completion of the University Writing Skills Requirement (UWSR).

Possible Instructional Methods: *Entirely On-ground, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F grading only.

PA 698 - Internship

Units: 1-3

Formal advanced work opportunities integrating the academic program with their career aspirations. Integral advanced hands-on experience enhancing education and preparing for professional and personal success.

Prerequisites: Department consent and minimum 3.0 GPA.

Credit Restrictions: No more than 3 units may be applied to the Public Administration major.

Equivalent Quarter Course: PUAD 6898.

Repeatability: May be repeated with department consent for a maximum of 6 units.

Possible Instructional Methods: *Entirely On-ground.*

Grading: CR/NC grading only.

PA 699 - Department Thesis

Units: 4

Development and writing of a research paper for submission to the department, which specifies its format.

Supervision by a member of the department faculty. Oral defense normally required.

Prerequisites: Department consent.

Equivalent Quarter Course: PUAD 6910.

Possible Instructional Methods: *Entirely On-ground, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F grading only.

Recreation

REC 100 - Introduction to Hospitality and Tourism, Recreation, and Recreation Therapy

Units: 3 ; G.E./G.R. Area: D1-3

Introduction to conceptual foundations, including historical knowledge, in hospitality, recreation, and recreation therapy. Overview of the hospitality, recreation, and tourism industry and the various segments that make up this industry group.

Equivalent Quarter Course: REC 1000 and HOS 1100.

Possible Instructional Methods: *Entirely On-ground, Entirely On-line, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F grading only.

G.E./G.R. Area Satisfied: *D1-3 - Lower Division Social Sciences*

REC 110 - Foundations of Sustainability in Hospitality, Recreation and Tourism

Units: 3 ; G.E./G.R. Area: Sustainability

Sustainable solutions and key challenges in improving the environment (air, water and food) in a community. Transitioning to a more sustainable approach in HRT industries at the local, regional and global level.

Strongly Recommended Preparation: HOS 100 and REC 100.

Possible Instructional Methods: *Entirely On-ground, Entirely On-line, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F or CR/NC (student choice).

G.E./G.R. Area Satisfied: *Overlay - Sustainability*

REC 200 - Serving Diverse Populations in Hospitality, Recreation, Rec Therapy and Tourism

Units: 3 ; G.E./G.R. Area: D1-3; Social Justice

Concepts of social equity, social justice, ability, ethnic and cultural diversity. Relationship between customers and HRT service providers. Focus includes inclusion and conflict management.

Strongly Recommended Preparation: HOS 100 and REC 100

Equivalent Quarter Course: REC 4050.

Possible Instructional Methods: *Entirely On-ground, Entirely On-line, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F or CR/NC (student choice).

G.E./G.R. Area Satisfied: *D1-3 - Lower Division Social Sciences, Overlay - Social Justice*

REC 210 - Programming in Community Recreation, Sport and Camp

Units: 3

Examination of factors influencing the planning, program design, implementation and evaluation of community recreation, sports and camp programs for large and small groups with attention to assuring social justice for ability, ethnic and cultural diversity. Active learning required.

Strongly Recommended Preparation: HOS 100 and REC 100.

Equivalent Quarter Course: REC 2200.

Possible Instructional Methods: *Entirely On-ground, Entirely On-line, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F or CR/NC (student choice).

REC 215 - Special Events in Recreation

Units: 3

Conceptualizing, analysis, and project planning of small to large-scale events. Best practices and trends in special events, such as sports, festivals and fundraisers. Developing a plan and analyzing the experience of volunteering at a special event.

Strongly Recommended Preparation: HOS 100 and REC 100.

Equivalent Quarter Course: REC 4501.

Possible Instructional Methods: *Entirely On-ground, Entirely On-line, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F or CR/NC (student choice).

REC 230 - Introduction to Youth Development

Units: 3 ; G.E./G.R. Area: D1-3

Developing youth aged 5-17 in non-profit, commercial, and public sectors. Community and youth engagement practices and services. The purpose, principles, and importance of youth leadership and peer mentorship.

Strongly Recommended Preparation: HOS 100 and REC 100.

Equivalent Quarter Course: REC 4011.

Possible Instructional Methods: *Entirely On-ground, Entirely On-line, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F or CR/NC (student choice).

G.E./G.R. Area Satisfied: *D1-3 - Lower Division Social Sciences*

REC 235 - Leisure, Self, and Society

Units: 3 ; G.E./G.R. Area: D1-3

Conceptual foundations and understanding of the significance of recreation and leisure. Life-cycle changes relative to an individual's attitudes, values and behaviors. Development of life-long strategies for creating and maintaining a desired quality of life, health and wellness.

Strongly Recommended Preparation: HOS 100 and REC 100.

Equivalent Quarter Course: REC 2400.

Possible Instructional Methods: *Entirely On-ground, Entirely On-line, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F or CR/NC (student choice).

G.E./G.R. Area Satisfied: *D1-3 - Lower Division Social Sciences*

REC 300 - Wellness Through Leisure

Units: 3 ; G.E./G.R. Area: D4

Basic theories and concepts of wellness, health, recreation and leisure. Key elements of wellness through leisure, such as quality of life, play, recreation, leisure, balance, work and self-efficacy.

Strongly Recommended Preparation: HOS 100 and REC 100.

Prerequisites: Completion of GE areas A1, A2, A3 and B4.

Equivalent Quarter Course: REC 3200.

Possible Instructional Methods: *Entirely On-ground, Entirely On-line, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F or CR/NC (student choice).

G.E./G.R. Area Satisfied: *D4 - Upper Division Social Sciences*

REC 310 - Women and Leisure

Units: 3 ; G.E./G.R. Area: D4

Leisure and recreational pursuits of women from a creative, historical and cultural perspective. Factors that influence leisure opportunities and how they contribute to the quality of life for women. Social changes related to leisure and the impact on women's lives.

Strongly Recommended Preparation: HOS 100 and REC 100.

Prerequisites: Completion of GE areas A1, A2, A3 and B4.

Equivalent Quarter Course: REC 3202.

Possible Instructional Methods: *Entirely On-ground, Entirely On-line, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F or CR/NC (student choice).

G.E./G.R. Area Satisfied: *D4 - Upper Division Social Sciences, Overlay - Social Justice*

REC 320 - Aquatic Management

Units: 3

Unique aspects of aquatic program management, including risk management, legal issues, appropriate training techniques, program planning, staffing, facility design and supervising aquatic environments.

Strongly Recommended Preparation: HOS 100 and REC 100.

Possible Instructional Methods: *Entirely On-ground, Entirely On-line, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F or CR/NC (student choice).

REC 321 - Resident and Day Camp Administration

Units: 3

Current principles and practices in the organized camp profession. Considers programming for the operation of public, private, and nonprofit camps. Topics include staffing, camper management, marketing, budgeting, activity planning and structure, and risk management.

Possible Instructional Methods: *Entirely On-ground, Entirely On-line, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F or CR/NC (student choice).

REC 325 - Leadership, Management and Ethics in Hospitality, Recreation, Rec Therapy, and Tourism

Units: 3

Leadership and Management and principles, values, and ethical boundaries. Evaluation of personal strengths and challenges as a team member and leader. Hiring, training, motivation, discipline, legal issues, supervision, evaluation and employees with special needs.

Equivalent Quarter Course: REC 3300 and REC 3510.

Possible Instructional Methods: *Entirely On-ground, Entirely On-line, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F or CR/NC (student choice).

REC 330 - Leadership in Small Groups

Units: 3

Leadership styles, characteristics and skills of leaders, and effective communication strategies. Small group leadership for recreation professionals. Understanding group behavior, teamwork and motivation.

Strongly Recommended Preparation: HOS 100 and REC 100.

Equivalent Quarter Course: REC 3401.

Possible Instructional Methods: *Entirely On-ground, Entirely On-line, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F or CR/NC (student choice).

REC 340 - Sustainable Facilities, Parks and Open Space

Units: 3 ; G.E./G.R. Area: Sustainability

Principles and procedures for planning, design, operation, care and management of sustainable facilities,

parks, open spaces and other areas. Examining economic, social, and environmental impacts of sustainable areas.

Strongly Recommended Preparation: HOS 100 and REC 100.

Equivalent Quarter Course: REC 4300.

Possible Instructional Methods: *Entirely On-ground, Entirely On-line, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F or CR/NC (student choice).

G.E./G.R. Area Satisfied: *Overlay - Sustainability*

REC 355 - Community Sustainability in Hospitality, Recreation and Tourism

Units: 3

Sustainable behaviors in HRT industries, the barriers and benefits of sustainability and development of individual and community incentives. Assessment of current personal and community sustainability behaviors and opportunities to instigate change locally.

Strongly Recommended Preparation: HOS 100 and REC 100.

Possible Instructional Methods: *Entirely On-ground, Entirely On-line, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F or CR/NC (student choice).

REC 360 - Foundations in Recreation Therapy

Units: 3 ; G.E./G.R. Area: E

The human developmental stages of recreation therapy across the lifespan, including theories of human behavior, principles of behavioral change, and concepts and models of health and human services. Investigation of potential career paths.

Strongly Recommended Preparation: HOS 100 and REC 100.

Equivalent Quarter Course: REC 3800.

Possible Instructional Methods: *Entirely On-ground, Entirely On-line, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F grading only.

G.E./G.R. Area Satisfied: *E - Lifelong Learning and Self-Development*

REC 361 - Recreation Therapy Diagnostic Groupings

Units: 3

Cognitive/developmental disorders, physical/medical disorders, and psychiatric disorders and how recreation therapy interventions are used.

Strongly Recommended Preparation: HOS 100 and REC 100.

Equivalent Quarter Course: REC 4605.

Possible Instructional Methods: *Entirely On-ground, Entirely On-line, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F grading only.

REC 362 - Recreation Therapy Documentation & Assessment

Units: 3

Current recreation therapy assessment instruments, inter-professional inventories and questionnaires, criteria for selection and/or development of assessment, and documentation formats.

Strongly Recommended Preparation: HOS 100 and REC 100.

Equivalent Quarter Course: REC 4600.

Possible Instructional Methods: *Entirely On-ground, Entirely On-line, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F grading only.

REC 363 - Recreation Therapy Process & Techniques

Units: 3

Recreation therapy process and techniques, including modalities and/or interventions, facilitation approaches, and intervention techniques.

Strongly Recommended Preparation: HOS 100 and REC 100.

Equivalent Quarter Course: REC 4601.

Possible Instructional Methods: *Entirely On-ground, Entirely On-line, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F grading only.

REC 364 - Recreation Therapy Program Planning & Implementation

Units: 3

Various recreation therapy service delivery models, including selection of programs, activities, and interventions to achieve the assessed needs, activity modifications, and purpose and techniques of activity/task analysis.

Strongly Recommended Preparation: HOS 100 and REC 100.

Equivalent Quarter Course: REC 4601 and REC 4603.

Possible Instructional Methods: *Entirely On-ground, Entirely On-line, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F grading only.

REC 365 - Advancement of Recreation Therapy Profession and Management

Units: 3

In-depth examination of a recreation therapy service plan of operation, procedures for program evaluation and accountability, quality improvement guidelines and techniques, and professionalism in recreation

therapy management.

Strongly Recommended Preparation: HOS 100 and REC 100.

Equivalent Quarter Course: REC 4604.

Possible Instructional Methods: *Entirely On-ground, Entirely On-line, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F grading only.

REC 400 - Law, Risk and Regulation in Hospitality, Recreation, Rec Therapy, and Tourism

Units: 3

Federal and state statutes, contracts and liability. Aspects of risk management, including the sale of food and alcohol, relationships with guests, crisis management and ethics.

Strongly Recommended Preparation: HOS 100 and REC 100.

Equivalent Quarter Course: HOS 4590.

Possible Instructional Methods: *Entirely On-ground, Entirely On-line, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F or CR/NC (student choice).

REC 425 - Strategic Positioning in Recreation

Units: 3

Strategic planning principles and the influence of organizational culture. Strategic positioning and partnering with stakeholders, including economic, social, and political. Financial management, negotiation strategies and conflict resolution within the workplace.

Strongly Recommended Preparation: HOS 100 and REC 100.

Possible Instructional Methods: *Entirely On-ground, Entirely On-line, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F or CR/NC (student choice).

REC 430 - Youth Development: Current Issues for Youth 5-17

Units: 3

Current issues in development for youth aged 5-17. Solutions and approaches for recreation professionals that address those issues. Analyze trends in youth development throughout different time periods.

Prerequisites: REC 230.

Possible Instructional Methods: *Entirely On-ground, Entirely On-line, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F or CR/NC (student choice).

REC 475 - Internship Placement

Units: 2

Develop a career portfolio, including resume, cover letter, interview preparation, and personal branding information. Identify an internship site to meet all criteria along with articulating internship goals and objectives. Experience in the field required. Should be taken one semester prior to REC 480.

Prerequisites: Department consent.

Equivalent Quarter Course: REC 4896.

Possible Instructional Methods: *Entirely On-ground, Entirely On-line, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F or CR/NC (student choice).

REC 476 - Recreation Therapy Internship Placement

Units: 1

Develop a career portfolio, including resume, cover letter, interview preparation, and personal branding information. Identify an internship site to meet all recreation therapy criteria and develop internship goals and objectives. 1,000 hours of experience in the field required. This course to be taken one semester prior to REC 481.

Strongly Recommended Preparation: Completion of B.S. Recreation major core classes.

Prerequisites: Department consent.

Equivalent Quarter Course: REC 4897.

Possible Instructional Methods: *Entirely On-ground, Entirely On-line, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F or CR/NC (student choice).

REC 480 - Internship

Units: 3-6

400-hour recreation internship taken after completing major classes and 1,000 hours of experience in the field. Must meet university GPA requirements prior to enrollment. Develop a capstone project that demonstrates knowledge learned throughout the program. Students will take this course after completing major classes and 1,000 hours of experience in the field.

Prerequisites: REC 475.

Equivalent Quarter Course: REC 4910.

Possible Instructional Methods: *Entirely On-ground, Entirely On-line, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F or CR/NC (student choice).

REC 481 - Recreation Therapy Internship

Units: 3-6

600-hour recreation therapy internship. To be taken after completing major classes and 1,000 hours of experience in the field. Develop a capstone project that demonstrates knowledge learned throughout the

program. Must meet university GPA requirements prior to enrollment.

Prerequisites: REC 476.

Equivalent Quarter Course: REC 4911.

Possible Instructional Methods: *Entirely On-ground, Entirely On-line, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F or CR/NC (student choice).

REC 490 - Independent Study

Units: 1-3

Individual investigation of a specific issue, area, or topic in HRT planned in consultation with a department faculty member. Students may apply no more than 12 units of independent study in the major department and 8 units in other departments to a baccalaureate degree. Undergraduate students who have at least a 2.0 (C) grade point average in all courses in the field or in all courses in the field or department in which the Independent Study is to be taken.

Strongly Recommended Preparation: HOS 100 and REC 100.

Prerequisites: Department consent and minimum 2.0 GPA.

Equivalent Quarter Course: REC 4900.

Repeatability: Repeatable for a maximum of 3 units

Possible Instructional Methods: *Entirely On-ground, Entirely On-line, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F or CR/NC (student choice).

REC 497 - Issues in Recreation

Units: 1-3

Readings, discussion, and research on contemporary and/or significant issues in Recreation.

Strongly Recommended Preparation: HOS 100 and REC 100.

Prerequisites: Department consent.

Equivalent Quarter Course: REC 3999.

Possible Instructional Methods: *Entirely On-ground, Entirely On-line, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F or CR/NC (student choice).

Hospitality, Recreation and Tourism: Graduate

REC 600 - Foundations of Hospitality, Recreation and Tourism

Units: 3

Examine leisure theories, history, philosophy, and different segments of the hospitality, recreation and tourism professions. Develop a comprehensive literature review on a topic in Hospitality, Recreation or Tourism selected for the synthesis project.

Prerequisites: Post-baccalaureate standing.

Equivalent Quarter Course: REC 6100.

Possible Instructional Methods: *Entirely On-ground, Entirely On-line, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F grading only.

REC 610 - Strategic Leadership and Ethics in Hospitality, Recreation and Tourism

Units: 3

Leadership in profit, nonprofit, and public organizations. Topics include talent development, resource allocation, communication strategies, ethical behaviors, and decision making.

Prerequisites: Department consent.

Equivalent Quarter Course: REC 6800.

Possible Instructional Methods: *Entirely On-ground, Entirely On-line, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F grading only.

REC 620 - Organizational Development in Hospitality, Recreation and Tourism

Units: 3

Fundamental concepts of organizational theory and human relations from a managerial perspective. Topics include structures and systems in service delivery, organizational effectiveness and change, and leadership styles.

Prerequisites: Department consent.

Equivalent Quarter Course: REC 6300.

Possible Instructional Methods: *Entirely On-ground, Entirely On-line, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F grading only.

REC 630 - Research Methods in Hospitality, Recreation and Tourism

Units: 3

Qualitative and quantitative research design exploration. Essential elements of applied research in Hospitality, Recreation and Tourism, including methodology and statistical analysis. Development of the synthesis project proposal.

Prerequisites: REC 600.

Equivalent Quarter Course: REC 6000.

Possible Instructional Methods: *Entirely On-ground, Entirely On-line, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F grading only.

REC 640 - Law and Risk in Hospitality, Recreation and Tourism

Units: 3

Law and risk in operations, facilities, services, programs and event management in hospitality, recreation and tourism. Methods for assessing and reducing risk, and elements of a comprehensive risk management plan.

Prerequisites: Department consent.

Possible Instructional Methods: *Entirely On-ground, Entirely On-line, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F grading only.

REC 650 - Fiscal Management in Hospitality, Recreation and Tourism

Units: 3

Fiscal management for profit, nonprofit, and public agencies. Topics include budgeting, forecasting, product development, pricing, methods of financing, and long-range fiscal planning.

Prerequisites: Department consent.

Possible Instructional Methods: *Entirely On-ground, Entirely On-line, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F grading only.

REC 660 - Sustainable Solutions in Hospitality, Recreation and Tourism

Units: 3

Analyze, develop, and advocate for sustainable management solutions in hospitality, recreation and tourism, both locally and globally. Discuss economic, social, and environmental practices to enhance sustainability.

Prerequisites: Department consent.

Equivalent Quarter Course: REC 6601.

Possible Instructional Methods: *Entirely On-ground, Entirely On-line, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F grading only.

REC 670 - Advanced Marketing in Hospitality, Recreation and Tourism

Units: 3

Advanced marketing theory and critical thinking skills applied to support strategic decision making. Developing a marketing campaign through market research. Selecting appropriate media, partnerships, and effective promotion and advertising techniques. Services marketing in Hospitality, Recreation and Tourism industries.

Prerequisites: Department consent.

Possible Instructional Methods: *Entirely On-ground, Entirely On-line, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F grading only.

REC 693A - Applied Research Project I

Units: 3

Developing a field-based project in Hospitality, Recreation or Tourism management through defining a problem, reviewing literature, and data collection. Advancement to candidacy is required.

Prerequisites: REC 630.

Equivalent Quarter Course: REC 6500.

Possible Instructional Methods: *Entirely On-ground, Entirely On-line, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F grading only.

REC 693B - Applied Research Project II

Units: 3

This second capstone course is designed to further develop a field-based project. REC 693B includes data collection analysis, reporting, interpreting findings and recommendations for application in the Hospitality, Recreation or Tourism field. Advancement to candidacy is required.

Prerequisites: REC 630 and REC 693A.

Equivalent Quarter Course: REC 6901.

Possible Instructional Methods: *Entirely On-ground, Entirely On-line, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F grading only.

REC 697 - Special Issues in Hospitality, Recreation and Tourism

Units: 1-3

Advanced, directed group study of special issues related to management of hospitality, recreation or tourism industries.

Prerequisites: Department consent.

Repeatability: May be repeated for credit for a maximum of 3 units.

Possible Instructional Methods: *Entirely On-ground, Entirely On-line, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F grading only.

Social Work: Graduate

SW 600 - Human Behavior and the Social Environment

Units: 4

Introduces theoretical perspectives of human development and behavior across the life span, examining the influence of social, political, historical, and cultural variables. Covers physiological, psychological, cognitive, and social dimensions from birth through end-of-life.

Prerequisites: M.S.W. major.

Equivalent Quarter Course: SW 6000 and SW 6001.

Possible Instructional Methods: *Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F grading only.

SW 601 - Race, Gender, and Inequality

Units: 4

Exploration of the impact of race, racism, gender, sexism, homophobia, ableism, and inequality in social work practice. Effective problem-solving when confronted with institutional barriers and interpersonal conflicts in agency and community-based social work practice with diverse populations.

Prerequisites: M.S.W. major.

Equivalent Quarter Course: SW 6010.

Possible Instructional Methods: *Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F grading only.

SW 602 - Introduction to Social Welfare Policy

Units: 4

Surveys major themes in social welfare policy and examines the associated values, theoretical assumptions, political and budgetary considerations, and structures. Emphasizes the application of social justice-oriented theoretical frameworks for understanding the role and impact of policy.

Prerequisites: M.S.W. major.

Equivalent Quarter Course: SW 6030.

Possible Instructional Methods: *Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F grading only.

SW 603 - Introduction to Social Welfare Research

Units: 4

The role of research in social work, the logic of research, the stages of underlying research process, various types of research designs, techniques of data collection and analysis, and strategies for evaluating service delivery in all areas of practice.

Prerequisites: M.S.W. major.

Equivalent Quarter Course: SW 6032.

Possible Instructional Methods: *Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F grading only.

SW 611 - Generalist Practice I

Units: 4

Competencies for generalist social work practice in micro and mezzo settings. Students will develop skills in intervention strategies including constructing professional relationships, assessing client situations, planning and implementing change, and evaluating outcomes.

Prerequisites: M.S.W. major.

Equivalent Quarter Course: SW 6011 and SW 6012.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

SW 612 - Generalist Practice II

Units: 4

This is the second foundation course in generalist practice. The course orients students to the major areas of small group, community, and organizational practice with particular emphasis on work with disenfranchised and oppressed populations.

Prerequisites: M.S.W. major.

Credit Restrictions: Master of Social Work students only

Equivalent Quarter Course: SW 6012 and SW 6013.

Possible Instructional Methods: *Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F grading only.

SW 621A - Advanced Practice I: Children, Youth, and Families: Individuals and Families

Units: 4

This is the first of two advanced practice courses required of students in the children, youth, and families concentration. It imparts knowledge and skills for providing culturally responsive services to individuals and families, particularly minority and underserved populations in urban environments.

Prerequisites: M.S.W. major.

Equivalent Quarter Course: SW 6500 and SW 6510.

Possible Instructional Methods: *Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F grading only.

SW 621B - Advanced Practice II: Children, Youth, and Families: Groups, Organizations, and Communities

Units: 4

This is the second required course with a focus on Children, Youth, and Families. The foci are mezzo and macro practices. Special attention will be paid to working with underserved urban and disenfranchised groups with an emphasis on public policy.

Prerequisites: M.S.W. major.

Credit Restrictions: Master of Social Work students only

Equivalent Quarter Course: SW 6510 and SW 6520.

Possible Instructional Methods: *Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F grading only.

SW 622A - Advanced Practice I: Community Mental Health: Individuals and Families

Units: 4

This is the first of two advanced practice courses required of students in the community mental health concentration. It imparts knowledge and skills for providing culturally responsive services to individuals and families, particularly minority and underserved populations in urban environments.

Prerequisites: M.S.W. major.

Equivalent Quarter Course: SW 6505 and SW 6515.

Possible Instructional Methods: *Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F grading only.

SW 622B - Advanced Practice II: Community Mental Health: Groups, Organizations, and Communities

Units: 4

This is the second advanced practice course required of students in the community mental health concentration. It imparts knowledge and skills for providing culturally responsive services to groups, organizations, and communities, particularly minority and underserved populations in urban environments.

Prerequisites: M.S.W. major.

Credit Restrictions: Master of Social Work students only

Equivalent Quarter Course: SW 6515 and SW 6525.

Possible Instructional Methods: *Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F grading only.

SW 630 - The Recovery Model in Community Mental Health

Units: 4

Concepts and practices of wellness and recovery for individuals, families, and society. A major emphasis is on applying recovery concepts to culturally diverse, urban, and stigmatized populations and advocating for and with consumers of mental health programs.

Prerequisites: M.S.W. major.

Credit Restrictions: Master of Social Work students only

Equivalent Quarter Course: SW 6550.

Possible Instructional Methods: *Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F grading only.

SW 631 - Advanced Psychosocial Assessment and Diagnosis

Units: 4

Advanced study in psychosocial assessment and diagnosis of children, adolescents, and adults. Examination of person-in-environment and DSM-V diagnosis.

Prerequisites: M.S.W. major.

Credit Restrictions: Master of Social Work students only

Equivalent Quarter Course: SW 6561.

Possible Instructional Methods: *Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F grading only.

SW 632 - Family Violence Across the Lifespan

Units: 4

This course provides students with an overview of family violence. It surveys the historical and social background of family violence, its social and psychological consequences for individuals, families and communities, as well as its prevention and intervention.

Prerequisites: M.S.W. major.

Equivalent Quarter Course: SW 6560.

Possible Instructional Methods: *Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F grading only.

SW 633 - Assessment and Treatment of Substance Abuse in Social Work Practice

Units: 4

Assessment and treatment of substance abuse issues in social work practice. Topics include prevalence of substance abuse, dual diagnosis, family systems, and evidence-based practices.

Prerequisites: M.S.W. major.

Credit Restrictions: Master of Social Work students only

Equivalent Quarter Course: SW 6553.

Possible Instructional Methods: *Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F grading only.

SW 634 - Legal Issues in Social Work Practice

Units: 4

In-depth exploration of complex legal issues in social work practice such as confidentiality, minor consent law, abortion, parental rights, access and consent to treatment, mental health commitment procedures, rights of dependent adults, rights of children, marriage, and divorce.

Prerequisites: M.S.W. major.

Equivalent Quarter Course: SW 6552.

Possible Instructional Methods: *Hybrid (every section of this course may be taught both online and on-ground).*
Grading: A-F grading only.

SW 689 - Community-Based Research in Social Work Practice

Units: 4

The purpose of this course is to prepare students to implement and evaluate a community-based research, evaluation or advocacy project. Topics include program evaluation and planning, data analysis, and ethical issues in community-based research.

Prerequisites: M.S.W. major.

Equivalent Quarter Course: SW 6932 and SW 6935.

Possible Instructional Methods: *Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F grading only.

SW 690 - Independent Study

Units: 1-4

Independent study in social work under guidance by a faculty sponsor.

Prerequisites: M.S.W. major.

Credit Restrictions: Master of Social Work students only

Equivalent Quarter Course: SW 6900.

Repeatability: May be repeated for credit, when content varies, for a maximum of 16 units.

Possible Instructional Methods: *Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F grading only.

SW 691 - University Thesis

Units: 4

Completion of a formal research paper for submission to the university in the specified format.
Supervision by a faculty committee, chaired by a regular member of the department.

Prerequisites: M.S.W. major.

Credit Restrictions: Master of Social Work students only.

Equivalent Quarter Course: SW 6910.

Possible Instructional Methods: *Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F grading only.

SW 693 - Integrative Project

Units: 4

The integrative project provides students an opportunity to implement a significant community-based research, evaluation, or advocacy project relevant to social work practice. In doing so, students are expected to demonstrate mastery of all MSW Program Learning Outcomes.

Equivalent Quarter Course: SW 6935 and SW 6959.

Possible Instructional Methods: *Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F grading only.

SW 695A - Social Work Practicum I

Units: 4

Students in Field Practicum courses are assigned to community-based placements applying the knowledge, skills, and values learned within program courses. Field education is guided by an individualized learning contract developed by the student and the field instructor. *Seminar Units: 2; Practicum Units: 2*

Prerequisites: M.S.W. major.

Equivalent Quarter Course: SW 6020 and SW 6021.

Possible Instructional Methods: *Hybrid (every section of this course may be taught both online and on-ground).*

Grading: CR/NC grading only.

SW 695B - Social Work Practicum II

Units: 4

Students in Field Practicum courses are assigned to community-based placements applying the knowledge, skills, and values learned within program courses. Field education is guided by an individualized learning contract developed by the student and the field instructor. *Seminar Units: 2; Practicum Units: 2*

Prerequisites: M.S.W. major.

Credit Restrictions: Master of Social Work students only

Equivalent Quarter Course: SW 6021 and SW 6022.

Possible Instructional Methods: *Hybrid (every section of this course may be taught both online and on-ground).*

Grading: CR/NC grading only.

SW 695C - Social Work Practicum III

Units: 4

The advanced practicum and field placement are designed to prepare students for entry into specialized and concentrated (Children Youth and Families or Community Mental Health) areas of practice, among diverse settings and populations. *Seminar Units: 2; Practicum Units: 2*

Prerequisites: M.S.W. major.

Equivalent Quarter Course: SW 6530 and SW 6531.

Possible Instructional Methods: *Hybrid (every section of this course may be taught both online and on-ground).*

Grading: CR/NC grading only.

SW 695D - Social Work Practicum IV

Units: 4

The advanced practicum and field placement are designed to prepare students for entry into specialized and concentrated (Children Youth and Families or Community Mental Health) areas of practice, among diverse settings and populations. *Seminar Units: 2; Practicum Units: 2*

Prerequisites: M.S.W. major.

Credit Restrictions: Master of Social Work students only

Equivalent Quarter Course: SW 6531 and SW 6532.

Possible Instructional Methods: *Hybrid (every section of this course may be taught both online and on-ground).*

Grading: CR/NC grading only.

SW 697 - Issues in Social Work

Units: 1-4

Readings, discussion, and research on contemporary and/or significant issues in social work.

Prerequisites: M.S.W. major.

Credit Restrictions: Master of Social Work students only

Equivalent Quarter Course: SW 6999.

Repeatability: May be repeated for credit, when content varies, up to a maximum of 8 units.

Possible Instructional Methods: *Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F grading only.

SW 699 - Departmental Thesis

Units: 4

Developing and writing a research paper for submission to the department, which specifies its format. Supervision by a departmental faculty member. Oral defense is required.

Prerequisites: M.S.W. major.

Credit Restrictions: Master of Social Work students only

Equivalent Quarter Course: SW 6909.

Possible Instructional Methods: *Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F grading only.

Sociology

SOC 100 - Introduction to Sociology

Units: 3 ; G.E./G.R. Area: D1-3

Introduces the basic theories, concepts and methods of sociology; its key areas of study; and emphasizes the sociological imagination that connects individual actions and opportunities to social institutions and processes.

Equivalent Quarter Course: SOC 1000.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

G.E./G.R. Area Satisfied: *D1-3 - Lower Division Social Sciences*

SOC 300 - Sociological Theory

Units: 4

Critical analysis of the works of leading sociological theorists from the middle of the 19th century to the present. Emphasizes linking theories to contemporary research questions and hypotheses.

Prerequisites: SOC 100.

Equivalent Quarter Course: SOC 3310.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

SOC 320 - Social Inequalities

Units: 4 ; G.E./G.R. Area: Social Justice

The relationship between unequal access to economic and political resources and social locations in systems of class, race, ethnicity, gender, and/or citizenship.

Equivalent Quarter Course: SOC 3420.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

G.E./G.R. Area Satisfied: *Overlay - Social Justice*

SOC 325 - Race and Ethnic Relations

Units: 4 ; G.E./G.R. Area: Diversity

The sociological study of race and ethnicity. Examines racial and ethnic stratification in the United States, including each student's own position within the nexus of race, ethnicity, and society.

Prerequisites: SOC 100.

Equivalent Quarter Course: SOC 3520.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

G.E./G.R. Area Satisfied: *Overlay - Diversity*

SOC 330 - Environmental Sociology

Units: 4

An introduction to environmental justice theory and practice. Environmental racism and other forms of ecological injustice are examined. Claims made by diverse groups are probed, and policy and civil society responses to perceived environmental injustice are explored.

Equivalent Quarter Course: SOC 4422.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

SOC 340 - Sociology of Gender

Units: 4 ; G.E./G.R. Area: Diversity

Examines the position that gender is a system of categorization that is created and sustained within the structures and institutions of society. Explores the ways in which gender intersects with other social systems to produce different experiences, perspectives, and opportunities.

Prerequisites: SOC 100.

Equivalent Quarter Course: SOC 3411.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

G.E./G.R. Area Satisfied: *Overlay - Diversity*

SOC 345 - American Society

Units: 3 ; G.E./G.R. Area: D4

Sociological perspective on important institutions and developments shaping life in American society today.

Prerequisites: Completion of GE areas A1, A2, A3 and B4.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

G.E./G.R. Area Satisfied: *D4 - Upper Division Social Sciences*

SOC 350 - Sociology of Immigration

Units: 4 ; G.E./G.R. Area: Diversity

The political, cultural and social dynamics of immigration to the U.S. Topics include processes of settlement and incorporation; institutional responses to immigration; prejudice and discrimination against immigrants; immigration, social and personal identity; and intergenerational tensions.

Prerequisites: SOC 100.

Equivalent Quarter Course: SOC 3612.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

G.E./G.R. Area Satisfied: *Overlay - Diversity*

SOC 355 - Global Society

Units: 4 ; G.E./G.R. Area: Sustainability

Examination of the global order with an emphasis on economic and political policies; technology and labor markets; global power relations; political unrest, resistance and social movements; local/global culture; global relations of gender, race & ethnicity; economic and environmental sustainability.

Equivalent Quarter Course: SOC 3431.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

G.E./G.R. Area Satisfied: *Overlay - Sustainability*

SOC 360 - Sociology of Sexualities

Units: 4

An analysis of the social construction of sexuality. Topics may include the intersection of race, class, gender and sexuality; power and the construction of norms that influence sexual identities; and, the role of agency in generating alternative identities and practices.

Equivalent Quarter Course: SOC 4200.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

SOC 365 - Deviance and Social Control

Units: 4

The study of societal and situational deviance, both criminal and non-criminal, with emphasis on deviance as a social construction, and the role of power in defining deviance.

Equivalent Quarter Course: SOC 3745.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

SOC 370 - Sociology of Education

Units: 4 ; G.E./G.R. Area: Diversity

The role of educational institutions in industrial and post-industrial societies. The contributions of various theories to understanding how schools affect individuals and groups, and the relationship between education and systems of race/ethnicity, class, and gender.

Equivalent Quarter Course: SOC 3620.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

G.E./G.R. Area Satisfied: *Overlay - Diversity*

SOC 375 - Urban Sociology

Units: 4

Historical and contemporary examination of urban life including community, race, geography, urban and suburban cultures and lifestyles, stratification, housing, crime, economic and environmental issues, demographic changes. Explores both urbanization in the US and in the international context.

Equivalent Quarter Course: SOC 4450.

Possible Instructional Methods: *Entirely On-ground, Entirely On-line, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F grading only.

SOC 380 - Sociology of Race, Crime and Justice

Units: 4

Critical analysis of contemporary American penal politics and punishment discourses. Emphasis on the state's role in criminalization processes and modern forms of social control. Racial, gender, and social inequality, and alternative policies promoting social justice and freedom, are examined.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

SOC 385 - Childhood and Society

Units: 4

Examines how childhood relates to social/political issues in society. Attention will be paid to understanding our own childhood, the social/historical construction of childhood, and race, class, gender and other social factors that intersect with childhood experiences.

Prerequisites: SOC 100.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

SOC 390 - Sociological Research Methods

Units: 4

Review of sociological research methods with an emphasis on learning: appropriate selection and use of

different methods; the limitations and strengths of each method; and, practicing qualitative and quantitative data collection and analysis.

Prerequisites: SOC 100 and STAT 100.

Equivalent Quarter Course: SOC 4111 and SOC 4112.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

SOC 398 - Internship

Units: 1-3

Introduction to the internship experience; integration of the academic program with career aspirations; emphasis on internship readiness and preparation for professional success.

Prerequisites: Department consent and minimum 2.0 GPA.

Credit Restrictions: No more than 3 units may be applied to the Sociology major or minor.

Equivalent Quarter Course: SOC 3898.

Repeatability: May be repeated with department consent for a maximum of 6 units.

Possible Instructional Methods: *Entirely On-ground.*

Grading: CR/NC grading only.

SOC 400 - Economy and Society

Units: 4 ; G.E./G.R. Area: Social Justice

Analysis of the relationship between economy and society with special attention paid to the evolution of economic practices that influence consumer debt, financial crises, and economic inequality.

Equivalent Quarter Course: SOC 4452.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

G.E./G.R. Area Satisfied: *Overlay - Social Justice*

SOC 403 - Sociology of the Family

Units: 4

Sociological analysis of relationships between the family and other institutions. Examines different theories of family change and diversification and surveys leading research on key developments in families and policies that influence families and family patterns.

Equivalent Quarter Course: SOC 3410.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

SOC 405 - Sociology of Organizations

Units: 4

Bureaucratic organizations and agencies in the modern world in both the public and the private sector. Examples of both successful and failed public agencies will be analyzed in terms of relationship between policy goals and organizational structure.

Equivalent Quarter Course: SOC 3890.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

SOC 408 - Animals and Society

Units: 4

Introduction to the field of human-animal studies, studying the social meanings that shape the role and status of animals in society, as well as how constructions and treatment of animals shape human identity.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

SOC 410 - Child Welfare Policy

Units: 4

A broad history of the practices and institutions through which we raise our children. The U.S. "child welfare system" is described, including the problems it addresses, the means of addressing them, and the system's successes and failures.

Equivalent Quarter Course: SOC 4750.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

SOC 413 - Medical Sociology

Units: 4 ; G.E./G.R. Area: Social Justice

The roles of culture and social structure in mediating the health and illness experiences of individuals and groups. Topics include the social construction of illness, the relationships between patients and health professionals, and the organization of medical work.

Equivalent Quarter Course: SOC 4720.

Possible Instructional Methods: *Entirely On-ground, Entirely On-line, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F grading only.

G.E./G.R. Area Satisfied: *Overlay - Social Justice*

SOC 415 - Popular Culture

Units: 4

An analysis of the historical development of modern popular culture through its interaction with both elite and commercial cultures. Various examples from contemporary popular culture (for example: popular music, television, movies) will be examined in detail.

Equivalent Quarter Course: SOC 4400.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

SOC 418 - Sociology of Music

Units: 4

Music's connection to social/political issues. Sociological theory is used to understand musical culture, learn how music is connected to other social factors (race, class, and gender), and develop a deeper understanding of our personal musical preferences.

Prerequisites: SOC 100.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

SOC 420 - Political Sociology

Units: 4 ; G.E./G.R. Area: Social Justice

Social theories of the state and political power; sociology of political engagement and exclusion; sociology of political divisions around issues such as immigration, globalization, taxation, policing and incarceration, family policy, sustainability, and economic power.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

G.E./G.R. Area Satisfied: *Overlay - Social Justice*

SOC 423 - Social Movements and Social Change

Units: 4

An examination of social movements and political actions. Theoretical perspectives on the origins, development, and outcomes of various social movements will be examined. Special attention is paid to historical and contemporary movements that emerged in response to social inequalities.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

SOC 425 - Work and Professions

Units: 4

Analysis of the transformation of the work process in the modern United States from one led by industrial manufacturing to an increasingly de-industrialized workplace of services, product design, advertising and finance.

Equivalent Quarter Course: SOC 3880.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

SOC 430 - Social Policy

Units: 4

Contemporary and historical nature of social policy in the United States, emphasizing at-risk populations and disenfranchised groups. Social problems such as homelessness, child abuse, poverty, and immigration.

Equivalent Quarter Course: SOC 3710.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

SOC 433 - Community Engagement

Units: 4 ; G.E./G.R. Area: Social Justice

Builds and promotes community engagement in non-profit community-based organizations. Probes and examines the dynamics of community service, volunteering, and service-based careers. This course includes volunteering in a Bay Area community based organization.

Equivalent Quarter Course: SOC 3614.

Possible Instructional Methods: *Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F grading only.

G.E./G.R. Area Satisfied: *Overlay - Social Justice*

SOC 435 - Social Psychology

Units: 4

Examines the relationship between the individual and society. Emphasis on scientific study of the social behavior and experiences stemming from individuals' participation in social groups, interaction with others, and the effects of the cultural environment and social structures on individuals.

Equivalent Quarter Course: SOC 3500.

Possible Instructional Methods: *Entirely On-ground, Entirely On-line, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F grading only.

SOC 440 - Alcohol and Drug Use

Units: 4

Examines social definitions and theories of drug use, overview of commonly used drugs, drug treatments and regulatory policies, and the political economy of drugs.

Equivalent Quarter Course: SOC 3750.

Possible Instructional Methods: *Entirely On-ground; Entirely On-line.*

Grading: A-F grading only.

SOC 443 - Death and Dying

Units: 4

Trends and patterns in death and dying including some or all of the following: historical perspectives, death in popular culture, demography of death, medical technology and dying, dying patient's perspective, survivors, and ethical dilemmas of death and dying.

Equivalent Quarter Course: SOC 3419.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

SOC 445 - Sociology of Emotions

Units: 4

Explores emotions as social constructs that are defined, shaped, changed, and transmitted through culture and social relations, often reflecting and reinforcing power and status differences.

Equivalent Quarter Course: SOC 3505.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

SOC 450 - Sociology of Food

Units: 4

Social processes in what, how and why we eat with emphasis on food production and consumption as instruments of social differentiation, identities and power.

Equivalent Quarter Course: SOC 3230.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

SOC 455 - Juvenile Delinquency

Units: 4

Examines social causes and contexts of juvenile delinquency. Focuses on government and legal responses to youth offenders, how these are shaped by social inequalities, discrimination, moral panics, and technology. Compares effectiveness and consequences of different responses and examines alternative strategies.

Equivalent Quarter Course: SOC 3730.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

SOC 460 - Marriage and Sex

Units: 4 ; G.E./G.R. Area: Diversity

A sociological and historical examination of sexual and intimate relationships. Emphasizes diversity in contemporary sexual and relationship patterns and covers issues like power in relationships, sexual socialization, gender and relationships, pornography, casual and long-term relationships, and managing conflicts.

Prerequisites: SOC 100.

Equivalent Quarter Course: SOC 3412.

Possible Instructional Methods: *Entirely On-ground, Entirely On-line, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F grading only.

G.E./G.R. Area Satisfied: *Overlay - Diversity*

SOC 465 - Mediation and Conflict Resolution

Units: 4

Covers theoretical and practical issues of how communities and individuals can resolve conflict. Focuses on mediation policies and mediator skills and gives students in-depth knowledge in alternative conflict resolution practices in diverse communities, in families, between individuals and companies.

Prerequisites: SOC 100.

Equivalent Quarter Course: SOC 3418.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

SOC 470 - Sociology of Travel and Tourism

Units: 4

Examines travel and tourism industry intertwined with multiple social institutions and social forces. Social contexts revealed through analyses of relationships between travel and tourism, consumption, cultural commodification, global relations of power and privilege, social inequality, and socio-cultural

identities.

Equivalent Quarter Course: SOC 3712.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

SOC 475 - Sociology of Sport

Units: 4

Sociological analysis of relationships between sport and other local and global institutions. Examines reciprocal linkages between sports and culture, politics, systems of inequality, and social mobility.

Prerequisites: SOC 100.

Equivalent Quarter Course: SOC 3424.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

SOC 478 - Sociology of Mega-Events

Units: 4

Examines the history, organization and politics of mega-events. Explores the accomplishments, problems, and consequences of these events on the destinations that host them, placing particular emphasis upon on the social and cultural impacts.

Possible Instructional Methods: *Entirely On-ground, Entirely On-line, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F grading only.

SOC 480 - Global Brazil

Units: 4 ; G.E./G.R. Area: Social Justice

This survey explores Brazilian society in global context from 1500 to the present, focusing on the cultural, economic, and social ties that connect Brazil to the rest of the world. Major themes include slavery, colonialism, race/ethnicity, and social inequality.

Possible Instructional Methods: *Entirely On-ground, Entirely On-line, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F grading only.

G.E./G.R. Area Satisfied: *Overlay - Social Justice*

SOC 481 - Contemporary Brazil-Study Abroad

Units: 4

Introduces contemporary social issues- citizenship, race, education, policing, religion, social welfare,

health, and poverty will all be explored. Rio de Janeiro will serve as the setting to explore these issues. Summer abroad only.

Equivalent Quarter Course: SOC 3535.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

SOC 482 - Global Race and Ethnic Relations

Units: 4

A comparative socio-historical inquiry into race and ethnic relations from an international perspective. Global race and ethnic relations will be examined as a function of politics, ideology, discourse and power.

Possible Instructional Methods: *Entirely On-ground, Entirely On-line, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F grading only.

SOC 485 - Policing and Society

Units: 4

Examines issues related to police, policing, and police-related public policy. It addresses knowledge of crime, how the police respond to crime, and how institutions designed to address crime (police, courts, corrections) function. Race and class is also addressed.

Equivalent Quarter Course: SOC 4730.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

SOC 490 - Independent Study

Units: 1-4

Students may apply no more than 12 units of independent study in the major department and 8 units in other departments to a baccalaureate degree. Only open to undergraduate students who have at least a 2.0 (C) grade point average in all sociology courses.

Strongly Recommended Preparation: SOC 100.

Prerequisites: Department consent and minimum 2.0 GPA.

Equivalent Quarter Course: SOC 4900.

Repeatability: Maybe repeated for a maximum of 8 units with permission of instructor.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

SOC 491 - Professional Development

Units: 1

Explores career paths for Sociology majors. Students will create a resume; practice interview skills; and learn how to link skills to employment opportunities. Students will also explore graduate programs and will create an application packet for graduate school.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

SOC 492 - Capstone Project Support

Units: 1

Additional support and review of sociological theory and methods for students while completing their capstone projects.

Possible Instructional Methods: *Entirely On-ground.*

Grading: CR/NC grading only.

SOC 496 - Topics Seminar

Units: 4

Contributions of sociological theories, methods, and perspectives to selected topics beyond regular courses. Requires individual and group research.

Equivalent Quarter Course: SOC 4800.

Repeatability: Maybe repeated once for credit when content varies, for a maximum of 8 units.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

SOC 497 - Issues in Sociology

Units: 4

Readings, discussion, and research on important contemporary issues or topics in sociology. Issues covered vary, so check on course details.

Equivalent Quarter Course: SOC 3999.

Repeatability: May be repeated once for credit when content varies for a maximum of 8 units.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

SOC 499 - Sociology Capstone Project

Units: 4

Design and completion of an independent research project using sociological theory to guide inquiry and sociological methods of gathering, analyzing, and organizing information.

Strongly Recommended Preparation: Two Diversity and Social Justice core courses, and two upper division SOC electives.

Prerequisites: All of: SOC 100, SOC 300, SOC 390, STAT 100.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

Speech Pathology and Audiology

SPPA 300 - Communicative and Cognitive Development Across the Lifespan

Units: 3

Acquisition and development of speech, language, cognition, and communication from infancy through the lifespan in typically developing individuals. Topics include language and cognitive developmental milestones, development of pragmatic skills, and changes in these abilities across the lifespan. *Please note: effective spring 2019 this course prefix will change from SPPA to SLHS.*

Strongly Recommended Preparation: PSYC 100.

Prerequisites: B.S. Speech Pathology and Audiology majors or B.A. Liberal Studies: Concentration in Studies in Educational Psychology major.

Equivalent Quarter Course: SPPA 3852.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

SPPA 301 - Anatomy and Physiology of Speech and Hearing

Units: 3

Anatomy and physiology of the speech and hearing mechanisms: respiration, phonation, articulation, resonance, hearing - with emphasis on normal processes. *Please note: effective spring 2019 this course prefix will change from SPPA to SLHS.*

Prerequisites: B.S. Speech Pathology and Audiology major or admitted graduate student; and BIOL 100.

Co-requisites: SPPA 300.

Equivalent Quarter Course: SPPA 3854.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

SPPA 302 - Phonetics and Phonological Disorders

Units: 3

Study of speech sound production; transcription of typical and disordered speech via the International Phonetic Alphabet (IPA). Introduction to speech sound acquisition, including typical and atypical phonological processes. Overview of evidence-based assessment and intervention for articulation and phonological disorders. *Please note: effective spring 2019 this course prefix will change from SPPA to SLHS.*

Prerequisites: SPPA 300 and SPPA 301, and declared major in B.S. Speech Pathology and Audiology, or admitted graduate student.

Equivalent Quarter Course: SPPA 3855 and SPPA 4863.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

SPPA 303 - Speech and Hearing Science

Units: 3

Acoustic fundamentals of hearing, voice, and speech, including audition (hearing sensitivity and thresholds, masking, critical bands, and speech perception), phonation (glottal source signal and source-filter theory), articulation (acoustical phonetics of consonants and vowels), resonance, and clinical applications. *Please note: effective spring 2019 this course prefix will change from SPPA to SLHS.*

Lecture Units: 2; Lab Units: 1

Prerequisites: SPPA 301 and PHYS 304, and declared major in B.S. Speech Pathology and Audiology, or admitted graduate student.

Co-requisites: SPPA 302.

Equivalent Quarter Course: SPPA 4867.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

SPPA 304 - Introduction to Communication Disorders

Units: 3

Comprehensive review of disorders of communication, cognition and swallowing across the lifespan for students in Speech-Language Pathology and Audiology. Topics introduced include disorders of speech, language, cognition and swallowing while introducing basic tenets of professional writing and communication. *Please note: effective spring 2019 this course prefix will change from SPPA to SLHS.*

Prerequisites: Declared major in B.S. Speech Pathology and Audiology, or admitted graduate student.

Equivalent Quarter Course: SPPA 2850.

Possible Instructional Methods: *Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F grading only.

SPPA 305 - Observation of Communication Disorders-Lab

Units: 1

Fifteen hours of supervised clinical observation of disorders of communication, cognition and swallowing; introduces tenets of clinical writing and documentation. *Please note: effective spring 2019 this course prefix will change from SPPA to SLHS.*

Prerequisites: Declared major in B.S. Speech Pathology and Audiology, or admitted graduate student.

Equivalent Quarter Course: SPPA 3856.

Possible Instructional Methods: *Entirely On-ground.*

Grading: CR/NC grading only.

SPPA 398 - Internship

Units: 1-3

Introduction to the internship experience; integration of the academic program with career aspirations; emphasis on internship readiness and preparation for professional success. *Please note: effective spring 2019 this course prefix will change from SPPA to SLHS.*

Prerequisites: Department consent, minimum 2.0 GPA. and declared major in B.S. Speech Pathology and Audiology.

Credit Restrictions: No units may be applied to the Speech-Language Pathology major.

Equivalent Quarter Course: SPPA 3898

Repeatability: May be repeated with department consent for a maximum of 6 units.

Possible Instructional Methods: *Entirely On-ground.*

Grading: CR/NC grading only.

SPPA 400 - Careers in Communication Disorders

Units: 2

Comprehensive review of career options after earning a degree in Speech-Language Pathology and Audiology. *Please note: effective spring 2019 this course prefix will change from SPPA to SLHS.*

Prerequisites: SPPA 300, senior standing and declared major in B.S. Speech Pathology and Audiology.

Co-requisites: SPPA 304.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

SPPA 401 - Neuroanatomy and Neurophysiology of Speech, Language and Hearing

Units: 3

Anatomy and physiology of the central and peripheral nervous systems as related to human cognitive and communicative function and dysfunction - with emphasis on normal processes. *Please note: effective spring 2019 this course prefix will change from SPPA to SLHS.*

Prerequisites: SPPA 301, SPPA 302, B.S. Speech Pathology and Audiology major, and senior standing, or admitted graduate student.

Equivalent Quarter Course: SPPA 4869.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

SPPA 402 - Audiology and Audiological Assessment

Units: 3

Review of anatomy and physiology of the outer, middle and inner ear systems and emphasis on their clinical correlates. Theory and application of pure tone and speech audiometric procedures for identification and differential diagnosis of peripheral auditory disorders. Please note: effective spring 2019 this course prefix will change from SPPA to SLHS. *Lecture Units: 2; Lab Units: 1*

Prerequisites: Department consent.

Co-requisites: SPPA 403.

Equivalent Quarter Course: SPPA 3859 and SPPA 4861.

Possible Instructional Methods: *Entirely On-ground, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F grading only.

SPPA 403 - Audiometry Lab

Units: 1

Provide students with supervised instruction and experience in audiometric screening. May be used for partial fulfillment of roles and responsibilities of SLP-Assistants or School Audiometrists. *Please note: effective spring 2019 this course prefix will change from SPPA to SLHS.*

Prerequisites: Department consent.

Co-requisites: SPPA 402.

Equivalent Quarter Course: SPPA 3859 and SPPA 4861.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

SPPA 404 - Child Language Disorders

Units: 3

Introduction to the causes and characteristics of primary and secondary language and literacy disorders in children; evidence-based assessment and intervention across settings. *Please note: effective spring 2019 this course prefix will change from SPPA to SLHS.*

Prerequisites: B.S. Speech Pathology and Audiology major, senior standing, and all of: PSYC 100, SPPA 300, SPPA 301, SPPA 302, SPPA 304, SPPA 305.

Equivalent Quarter Course: SPPA 4865.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

SPPA 405 - Multicultural Issues in Communicative Sciences and Disorders

Units: 3

Overview of knowledge and skills needed to competently serve diverse populations with communication disorders. Key topics include: components of culture, linguistic diversity, bilingualism and second language acquisition, health disparities, tenets of least-biased assessment, and culturally valid treatment.

Please note: effective spring 2019 this course prefix will change from SPPA to SLHS.

Prerequisites: SPPA 301, SPPA 304, SPPA 404, senior standing and declared major in B.S. Speech Pathology and Audiology.

Equivalent Quarter Course: SPPA 4868.

Possible Instructional Methods: *Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F grading only.

SPPA 406 - Adult Neurocognitive Disorders

Units: 3

Clinical introduction to neurocognitive disorders, namely aphasia, dementia, cognitive impairments, traumatic brain injury, and right hemisphere disorder. Emphasizes learning about human cognitive and communicative systems, identifying characteristics of NCDs, identifying evidence-based principles and techniques for assessment and intervention. *Please note: effective spring 2019 this course prefix will change from SPPA to SLHS.*

Prerequisites: SPPA 301, SPPA 304, SPPA 401, senior standing and declared major in B.S. Speech Pathology and Audiology, or admitted graduate student.

Co-requisites: SPPA 407.

Equivalent Quarter Course: SPPA 4866.

Possible Instructional Methods: *Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F grading only.

SPPA 407 - Clinical Methods and Diagnostics

Units: 3

Basic principles of client assessment, treatment and management, including designing therapy hierarchies, collecting data, working with families, reinforcing correct behavior and documenting outcomes. Lab observation assignment required. Provides 10 hours of supervised clinical observation. *Please note: effective spring 2019 this course prefix will change from SPPA to SLHS.*

Prerequisites: SPPA 301, SPPA 302, SPPA 304, SPPA 305, SPPA 402, SPPA 403, SPPA 404, senior standing, and declared major in B.S. Speech Pathology and Audiology, or admitted graduate student.

Equivalent Quarter Course: SPPA 4852 and SPPA 4854.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

SPPA 490 - Independent Study

Units: 1-4

Independent study under the supervision a department faculty member. *Please note: effective spring 2019 this course prefix will change from SPPA to SLHS.*

Prerequisites: Department consent and minimum 2.0 GPA.

Credit Restrictions: No more than 12 units of independent study may be applied in the major department and 8 units in other departments to a baccalaureate degree.

Equivalent Quarter Course: SPPA 4900.

Repeatability: May be repeated for credit, with department consent, for a total of 12 units.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

SPPA 497 - Issues in Speech-Language Pathology

Units: 2

Readings, discussion, and research on contemporary and/or significant issues in speech pathology and audiology. Topics may include autism, traumatic brain injury, early intervention, dementia, head and neck cancer, and cleft palate. *Please note: effective spring 2019 this course prefix will change from SPPA to SLHS.*

Prerequisites: B.S. Speech Pathology and Audiology major, and either senior standing or admitted graduate student.

Equivalent Quarter Course: SPPA 3999.

Repeatability: May be repeated for credit when content varies, for a maximum of 4 units.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

SPPA 508 - Lifespan Development and Child Language Disorders

Units: 4

Study of acquisition and development of speech, language, cognition, and communication from infancy through the lifespan in typically developing individuals and an introduction to causes and treatment of language disorders in children including evidence-based assessment and intervention across settings.

Please note: effective spring 2019 this course prefix will change from SPPA to SLHS.

Prerequisites: Admission to M.S. Speech-Language Pathology program.

Possible Instructional Methods: *Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F grading only.

Speech-Language Pathology: Graduate

SPPA 600 - Foundations of Clinical Practicum

Units: 2

Basic principles of clinical management, including foundations of therapy, performance analysis, professional documentation, development of therapeutic hierarchies, cueing, data collection, behavior

management, reinforcements and caregiver training. Emphasis on clinical/professional writing. *Please note: effective spring 2019 this course prefix will change from SPPA to SLHS.*

Prerequisites: Admission to M.S. Speech-Language Pathology program.

Co-requisites: SPPA 694.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

SPPA 601 - Assessment and Treatment of Child Language Disorders

Units: 4

This course is designed to provide graduate students with the knowledge and skills necessary to provide evidence-based interventions for children with developmental disabilities including those with autism with an emphasis on developing functional communication for children and their families. *Please note: effective spring 2019 this course prefix will change from SPPA to SLHS.*

Prerequisites: Admission to M.S. Speech-Language Pathology program.

Equivalent Quarter Course: SPPA 6060.

Possible Instructional Methods: *Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F grading only.

SPPA 602 - Adult Neurogenic Disorders of Language and Cognition

Units: 4

Relationships between brain dysfunction and disorders of language and cognition. Content includes observation, administering and interpreting standardized and non-standardized assessments, differential diagnosis, designing treatment plans, and collecting data for evidence-based treatment decisions. *Please note: effective spring 2019 this course prefix will change from SPPA to SLHS.*

Prerequisites: Admission to M.S. Speech-Language Pathology program, SPPA 301 and SPPA 406.

Equivalent Quarter Course: SPPA 6055.

Possible Instructional Methods: *Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F grading only.

SPPA 603 - Advanced Seminar on Articulation and Phonological Disorders

Units: 2

Advanced seminar on articulation and phonological disorders; addresses theoretical background, differential diagnosis and evidence-based intervention for articulation and phonological disorders, including the relationship between phonological disorders and development of literacy. *Please note: effective spring 2019 this course prefix will change from SPPA to SLHS.*

Prerequisites: Admission to M.S. Speech-Language Pathology program.

Equivalent Quarter Course: SPPA 6040; SPPA 603 and SPPA 697, if both completed, are equivalent to SPPA 6999.

Possible Instructional Methods: Entirely On-ground, Hybrid (every section of this course may be taught both online and on-ground).

Grading: A-F grading only.

SPPA 604 - Speech Science and Voice Disorders

Units: 4

Instrumental analysis and quantitative assessment of normal and disordered respiratory, phonatory, articulatory, and resonance patterns. Differential diagnosis and treatment of organic and non-organic voice disorders. *Please note: effective spring 2019 this course prefix will change from SPPA to SLHS.*

Prerequisites: Admission to M.S. Speech-Language Pathology program and SPPA 303.

Equivalent Quarter Course: SPPA 6010 and SPPA 6020.

Possible Instructional Methods: Hybrid (every section of this course may be taught both online and on-ground).

Grading: A-F grading only.

SPPA 605 - Dysphagia in Adults and Children

Units: 4

Evidence-based, contemporary practices for screening, assessment, and treatment of dysphagia in adults and children. Anatomy and physiology of normal swallowing, bedside and instrumental assessment of swallowing disorders, management of swallowing disorders, and ethical issues in clinical practice. *Please note: effective spring 2019 this course prefix will change from SPPA to SLHS. Lecture Units: 3; Clinical Units: 1*

Prerequisites: Admission to M.S. Speech-Language Pathology program.

Equivalent Quarter Course: SPPA 6220.

Possible Instructional Methods: Hybrid (every section of this course may be taught both online and on-ground).

Grading: A-F grading only.

SPPA 606 - Augmentative and Alternative Communication

Units: 3

Principles of assessment and intervention in augmentative/alternative communication for children and adults with complex communication needs. Includes hands-on experience with software and hardware. Open to professionals in relevant fields with instructor permission. *Please note: effective spring 2019 this course prefix will change from SPPA to SLHS.*

Prerequisites: Admission to M.S. Speech-Language Pathology program.

Equivalent Quarter Course: SPPA 6070.

Possible Instructional Methods: Hybrid (every section of this course may be taught both online and on-ground).

Grading: A-F grading only.

SPPA 607 - Advanced Seminar on Cultural and Linguistic Diversity

Units: 2

Knowledge, skills and attitudes essential for speech-language pathologists serving diverse populations with disorders of speech, language, hearing, cognition, and swallowing. Issues: second language acquisition, techniques for least-biased and dynamic assessment of clients, culturally relevant interviewing and intervention techniques. *Please note: effective spring 2019 this course prefix will change from SPPA to SLHS.*

Prerequisites: Admission to M.S. Speech-Language Pathology program.

Equivalent Quarter Course: SPPA 6040; SPPA 607 and SPPA 697, if both completed, are equivalent to SPPA 6999.

Possible Instructional Methods: *Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F grading only.

SPPA 608 - Research Methods and Evidence-based Practice

Units: 3

This course focuses on research methods in communicative disorders in order to train students to be active consumers and producers of research. Emphasis on integration of research and clinical practice through execution of a single-case research study. *Please note: effective spring 2019 this course prefix will change from SPPA to SLHS.*

Prerequisites: Admission to M.S. Speech-Language Pathology program.

Equivalent Quarter Course: SPPA 6000.

Possible Instructional Methods: *Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F grading only.

SPPA 609 - Motor Speech Disorders in Adults and Children

Units: 3

Differential diagnosis and evidence-based treatment of the dysarthrias, apraxia of speech, and other speech and voice disorders deriving from acquired and developmental neuropathologies in adults and children. *Please note: effective spring 2019 this course prefix will change from SPPA to SLHS.*

Prerequisites: Admission to M.S. Speech-Language Pathology program.

Equivalent Quarter Course: SPPA 6050.

Possible Instructional Methods: *Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F grading only.

SPPA 610 - Fluency Disorders

Units: 2

Theories of etiology, effective assessment and therapeutic approaches to fluency disorders in children and adults. *Please note: effective spring 2019 this course prefix will change from SPPA to SLHS.*

Prerequisites: Admission to M.S. Speech-Language Pathology program.

Equivalent Quarter Course: SPPA 6064.

Possible Instructional Methods: *Entirely On-ground, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F grading only.

SPPA 611 - Aural Rehabilitation

Units: 3

Advanced study of best practices in audiological rehabilitation including issues faced by clinicians when providing aural rehabilitation services across different clinical settings. Emphasis on forming aural rehabilitation groups and training communication strategies. Guided experience in facilitating group audiological rehabilitation. Please note: effective spring 2019 this course prefix will change from SPPA to SLHS. *Lecture Units: 2; Clinical Units: 1 (*see Errata - Course page for update)*

Prerequisites: Admission to M.S. Speech-Language Pathology program.

Equivalent Quarter Course: SPPA 6160.

Possible Instructional Methods: *Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F grading only.

SPPA 612 - Counseling in Speech-Language Pathology

Units: 2

Counseling issues related to speech-language pathology. Students will learn to explore the interpersonal/psychosocial dimensions of working with persons with communicative disabilities and to implement strategies that facilitate their clients' wellness through the lifespan. *Please note: effective spring 2019 this course prefix will change from SPPA to SLHS.*

Prerequisites: Admission to M.S. Speech-Language Pathology program.

Equivalent Quarter Course: SPPA 6080.

Possible Instructional Methods: *Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F grading only.

SPPA 690 - Independent Study

Units: 1-4

Independent study under the supervision of a member of the graduate faculty. *Please note: effective spring 2019 this course prefix will change from SPPA to SLHS.*

Prerequisites: Department consent and minimum 3.0 GPA.

Equivalent Quarter Course: SPPA 6900.

Repeatability: May be repeated for credit, with department consent, for a total of 12 units.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

SPPA 693 - Professional Practices

Units: 2

Understanding policies, procedures, and state/federal/institutional regulations within various models of service delivery, including transitional care, interprofessional collaboration, and financial models.

Understanding licensure, credential, and certification application and maintenance requirements. *Please note: effective spring 2019 this course prefix will change from SPPA to SLHS.*

Prerequisites: Admission to M.S. Speech-Language Pathology program.

Equivalent Quarter Course: SPPA 6030.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

SPPA 694 - Practicum: Introduction to Treatment

Units: 2

Initial clinical practicum for clock hour credit for graduate students. Development, implementation, evaluation of individual therapy plans for clients with speech or language impairments. *Please note: effective spring 2019 this course prefix will change from SPPA to SLHS.*

Prerequisites: M.S. Speech-Language Pathology major.

Co-requisites: SPPA 600.

Possible Instructional Methods: *Entirely On-ground.*

Grading: ABC/NC grading only.

SPPA 695 - Practicum: Treatment

Units: 2

Development, implementation, evaluation of individual therapy plans for clients with speech/language/hearing/cognition/swallowing conditions to develop skills in working with clients with multiple needs; increased independence and competency in clinical writing, oral case summarization, and conducting care conferences with family members of clients. *Please note: effective spring 2019 this course prefix will change from SPPA to SLHS.*

Prerequisites: M.S. Speech Language Pathology major and SPPA 694.

Equivalent Quarter Course: SPPA 6056.

Repeatability: May be repeated for credit for a maximum of 6 units.

Possible Instructional Methods: *Entirely On-ground.*

Grading: ABC/NC grading only.

SPPA 696 - Practicum: Assessment

Units: 2

Supervised clinical assessment and diagnosis of disorders of speech, language, hearing, cognition and swallowing. Competencies targeted include history taking, test administration, clinical data analysis, client/family counseling, oral case presentation and written report writing. *Please note: effective spring 2019 this course prefix will change from SPPA to SLHS. Practicum Units: 1; Lab Units: 1*

Prerequisites: M.S. Speech-Language Pathology major.

Equivalent Quarter Course: SPPA 6057.

Possible Instructional Methods: *Entirely On-ground.*

Grading: ABC/NC grading only.

SPPA 697 - Issues in Speech-Language Pathology

Units: 2

Readings, discussion, and research on contemporary and/or significant issues in speech pathology and audiology. Topics may include autism, traumatic brain injury, early intervention, dementia, head and neck cancer, and cleft palate. *Please note: effective spring 2019 this course prefix will change from SPPA to SLHS.*

Equivalent Quarter Course: SPPA 6040; SPPA 603 and SPPA 697, if both completed are equivalent to SPPA 6999; SPPA 607 and SPPA 697, if both completed are equivalent to SPPA 6999.

Repeatability: Course may be repeated for credit for a total of 4 units, when content varies.

Possible Instructional Methods: *Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F grading only.

SPPA 698 - Internship

Units: 6

Field placement in supervised and approved clinical settings such as public schools, hospitals, and community speech-language and hearing clinics and/or programs. Clinical internships are typically completed in two distinct settings to provide requisite breadth of clinical training, and to meet professional accreditation and licensure/certification standards. *Please note: effective spring 2019 this course prefix will change from SPPA to SLHS.*

Prerequisites: Admission to M.S. Speech-Language Pathology program.

Equivalent Quarter Course: SPPA 6066.

Repeatability: Must be repeated twice for credit for a maximum of 12 units.

Possible Instructional Methods: *Entirely On-ground.*

Grading: ABC/NC grading only.

SPPA 699 - Department Thesis

Units: 2

Completion of a supervised research project; includes a written research paper, and oral presentation of methodology and findings-in part fulfillment of the requirements for the M.S. degree in Speech-Language Pathology. Approved written proposal by assigned academic advisor required. Minimum cumulative 3.5 GPA. *Please note: effective spring 2019 this course prefix will change from SPPA to SLHS.*

Prerequisites: Department consent and graduate student enrolled in the MS Program in Speech-Language Pathology.

Equivalent Quarter Course: SPPA 6910.

Possible Instructional Methods: *Entirely On-ground.*

Grading: ABC/NC grading only.

Statistics

STAT 100 - Elements of Statistics and Probability

Units: 3 ; G.E./G.R. Area: B4

Descriptive statistics (measures of central tendency, dispersion, correlation), elementary discrete probability distributions. Introduction to tests of statistical hypotheses. Use of computers. Must complete course with a grade of "C-" or better in order to earn General Education, Area B4, credit.

Co-requisites: STAT 100A required for students in Category III and IV.

Credit Restrictions: Not open to students with credit for STAT 110 or STAT 303.

Equivalent Quarter Course: STAT 1000.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

G.E./G.R. Area Satisfied: *B4 - Lower Division Mathematics/Quantitative Reasoning*

STAT 100A - Statistics Principles

Units: 1

This course supports quantitative reasoning skills needed for success in STAT 100 or STAT 110. Required for Category III and IV students taking STAT 100 or STAT 110.

Co-requisites: STAT 100 or STAT 110.

Repeatability: May be repeated for credit for a maximum of 3 units.

Possible Instructional Methods: *Entirely On-ground.*

Grading: CR/NC grading only.

STAT 101 - Statistics in Everyday Life

Units: 3 ; G.E./G.R. Area: B4

Statistics and probability in daily life. Principles of collecting, presenting and interpreting data in order to critically assess results reported in the media; emphasis is on understanding scientific and social studies; understanding probability, risk and odds.

Co-requisites: STAT 101A required for students in Category III and IV.

Credit Restrictions: Not open to students with credit for STAT 100, STAT 110 or STAT 303. Not for Statistics major or minor credit.

Possible Instructional Methods: *Entirely On-ground, Entirely On-line, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F or CR/NC (student choice).

G.E./G.R. Area Satisfied: *B4 - Lower Division Mathematics/Quantitative Reasoning*

STAT 101A - Everyday Statistics Principles

Units: 1

This course supports quantitative reasoning skills needed for success in STAT 101. Required for Category III and IV students taking STAT 101.

Co-requisites: STAT 101.

Repeatability: May be repeated for credit for a maximum of 3 units.

Possible Instructional Methods: *Entirely On-ground.*

Grading: CR/NC grading only.

STAT 110 - Elements of Statistics for Business and Economics

Units: 3

Introduction to modern probability, descriptive statistics, estimation, hypothesis testing, and linear regression. Applications to business and economics. Use of computers.

Co-requisites: STAT 100A required for students in Category III and IV.

Credit Restrictions: Not open to students with credit for STAT 100 or STAT 303.

Equivalent Quarter Course: STAT 2010.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

STAT 303 - Statistical Methods in Biology

Units: 3

Basic probability and statistical concepts. Introduction to the analysis of variance, correlation, and simple linear regression. Nonparametric techniques with application to biology. Use of computer packages.

Lecture Units: 2; Lab Units: 1

Prerequisites: Completion of GE area B4.

Equivalent Quarter Course: STAT 3031.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

STAT 303A - Biostatistics for Health Science

Units: 3

Basic probability and statistical concepts. Introduction to the analysis of variance, correlation, and simple linear regression. Nonparametric techniques with application to health sciences. Use of computer packages. *Lecture Units: 2; Lab Units: 1*

Prerequisites: Completion of GE area B4.

Credit Restrictions: Not open to students with credit for STAT 303.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

STAT 305 - Statistics: From Data to Decisions

Units: 3

Fundamentals of statistical reasoning using real data from many disciplines. May include data science, social science, science, and business applications. Data visualization, simulation, and analysis using computer software. Data-driven decisions. Report writing.

Prerequisites: STAT 100.

Credit Restrictions: Not for Statistics B.S. degree credit, acceptable for Statistics minor.

Equivalent Quarter Course: STAT 3050.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

STAT 310 - Statistical Methods in the Social Sciences

Units: 3

Standard scores, t-scores, the normal distribution and its uses, hypothesis testing and estimation for means, paired comparisons, independent means, and analysis of variance. Linear regression and correlation. Uses of chi-squared. Introduction to design of experiments. Use of computer packages.

Lecture Units: 2; Activity Units: 1

Prerequisites: STAT 100.

Equivalent Quarter Course: STAT 3010.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

STAT 311 - Data Analysis using Statistical Packages

Units: 3

Using computer packages (e.g., SPSS, JMP) to analyze data and interpret output. Data collection and preparation, descriptive statistics, data visualization, checks for normality, t-tests, F-tests, ANOVA, cross tabulations, chi-squared tests, correlation, and factor analysis. Report writing or oral presentation.

Strongly Recommended Preparation: STAT 310.

Prerequisites: STAT 100 or STAT 110 or STAT 303 or STAT 316 or STAT 330.

Equivalent Quarter Course: STAT 3900.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

STAT 315 - Exploring and Analyzing Data

Units: 3

Foundations of data science from three perspectives: inferential thinking, computational thinking, and real-world relevance. Introduction to statistical programming and statistical inference with hands-on analysis of real-world datasets, including economic data, document collections, and social networks.

Lecture Units: 2; Activity Units: 1

Prerequisites: Completion of GE area B4.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

STAT 316 - Statistics and Probability for Science and Engineering

Units: 3

Basic probability rules (independence, Bayes' Theorem), distributions (binomial, Poisson, normal, exponential), reliability. Descriptive, inferential statistics (control charts, estimation, hypothesis testing: one, two samples), correlation, regression. Emphasizes: computer analysis, simulation; science, engineering applications.

Prerequisites: MATH 131.

Credit Restrictions: Not open for credit for those taking STAT 330.

Equivalent Quarter Course: STAT 3601.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

STAT 320 - Introduction to Probability Theory I

Units: 3

The theory of probability with applications to science and engineering. Selected topics may include: sample spaces; random variables; joint, marginal, conditional distributions; sampling and sampling distributions, expectations; probability distributions (binomial, Poisson, normal, etc.); and moment generating functions.

Prerequisites: MATH 130.

Equivalent Quarter Course: STAT 3401.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

STAT 321 - Probability Through Simulation

Units: 3

Introductory probability using simulation methods. Estimation of probabilities applying the Law of Large Numbers using repeated sampling. Accuracy of probabilities applying the Central Limit Theorem using repeated sampling. Simulating conditional probabilities using conditional programming techniques. Bootstrapping, Randomization Testing, Bayesian Modeling.

Prerequisites: CS 100.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

STAT 330 - Statistical Inference

Units: 3

Random variables, sampling distributions (binomial, Poisson, normal, exponential), conditional probability. Estimation, confidence intervals, hypothesis testing. Computer-aided computations. Topics include: t-tests, correlation, regression; proportions, chi-squared; ANOVA.

Prerequisites: One of: MATH 115, MATH 120, MATH 180.

Equivalent Quarter Course: STAT 3502.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

STAT 331 - Introduction to Analysis of Variance

Units: 3

Analysis of variance with emphasis on design and analysis of experiments. Use of data from social sciences, science, and business. Factorial designs, random effects, nesting. Optional topics: incomplete blocks, missing data, analysis of covariance. Use of statistical software. Report writing.

Prerequisites: STAT 316 or STAT 330.

Equivalent Quarter Course: STAT 3503.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

STAT 351 - Sampling Procedures for Surveys

Units: 3

Detailed investigation of sampling methods. Development of surveys. Design and comparisons of stratified, systematic, and cluster sampling procedures. Use of survey, statistical, and cloud-based software. Emphasis on applications to social sciences.

Prerequisites: STAT 100.

Equivalent Quarter Course: STAT 3510.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

STAT 401 - Analysis of Variance for Psychology

Units: 3 ; G.E./G.R. Area: D4

Analysis of variance including multiple comparisons and effect size. Factorial analysis of variance, interactions, repeated measures design, random effects design. Statistical analysis using SPSS. Analysis

of real data and report writing.

Prerequisites: Completion of GE Areas A1, A2, A3 and B4; and either STAT 310 or STAT 303.

Equivalent Quarter Course: STAT 4000.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

G.E./G.R. Area Satisfied: *D4 - Upper Division Social Sciences*

STAT 432 - Introduction to Linear Regression and Logistic Regression

Units: 3

Computational methods in linear regression and logistic regression. Model selection methods. Predictive modeling and forecasting. Attention to model assessment, graphical techniques, and assumption checking. Emphasis on real data from science, social sciences, and business. Use of statistical software. Report writing.

Prerequisites: STAT 330 or STAT 310.

Equivalent Quarter Course: STAT 4601.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

STAT 450 - Introduction to R for Data Science

Units: 3

Introduction to the R environment and data analysis. Topics include use of dataframes and lists, importing and exporting different kinds of data files, writing user defined functions, R packages, Regression, Principle Components Analysis (PCA), and Clustering.

Prerequisites: One of: STAT 110, STAT 303, STAT 310, STAT 315, STAT 330.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

STAT 451 - Introduction to Data Visualization

Units: 3

Methods used in data visualization and interactive data exploration. Topics include importing, exporting and data merging, visualization of quantitative and qualitative data, effective graphs and charts, interactive maps, elements of visual perception, and meaningful visual representations of complex statistics.

Prerequisites: STAT 303 or STAT 310 or STAT 316 or STAT 330.

Equivalent Quarter Course: STAT 4868.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

STAT 452 - Introduction to Statistical Learning

Units: 3

Introduction to statistical machine learning. Supervised learning including linear regression, logistic regression, and classification methods. Unsupervised learning including clustering. Re-sampling methods such as random forests, cross-validation, boosting, and bagging. Applications to data mining, statistical pattern recognition, and data processing.

Prerequisites: One of: STAT 110, STAT 303, STAT 310, STAT 315, STAT 330.

Equivalent Quarter Course: STAT 4869.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

STAT 460 - Advanced Statistical Package Usage

Units: 3

Programming using an advanced statistical software package, producing reformatted data, advanced statistical analysis, and probability modeling. Topics may include graphics, spatial statistics, creating and managing data files, simulations, approximation algorithms.

Equivalent Quarter Course: STAT 4910.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

STAT 473 - Introduction to Nonparametric Statistics

Units: 3

Introduction to nonparametric methods and distribution-free inferential methods. Topics include resampling methods, permutation methods, and bootstrapping. Hypothesis testing and Estimation. Measures of association.

Prerequisites: STAT 310 or STAT 330.

Equivalent Quarter Course: STAT 4610.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

STAT 474 - Introduction to Time Series and Forecasting

Units: 3

Analysis of correlated data in time, trends, seasonal patterns, periodicity, autocorrelation, spectral analysis, filtering, time domain versus spectral domain. Decomposition, auto-regression, ARIMA, and forecasting. Applications to data in economics, engineering, seismology. Report writing. Use of computer software.

Prerequisites: One of: STAT 100, STAT 110, STAT 303, STAT 316, STAT 330.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

STAT 475 - Introduction to Stochastic Processes

Units: 3

Theory of stochastic models with applications to science and engineering. Poisson processes. Markov processes. Elementary birth-death processes, queues. Limit theorems. Computer simulation. Applications: e.g., reliability, epidemiology, Bayesian MCMC.

Prerequisites: STAT 320 or STAT 316.

Equivalent Quarter Course: STAT 4401.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice)

STAT 481 - Bayesian Statistics

Units: 3

Undergraduate course focusing on concepts, methodology and computation, with real data applications. Topics include Bayes' theorem, prior, posterior and predictive distributions, and hierarchical models. Computational strategies such as MCMC, model diagnostics and selection will be discussed.

Prerequisites: One of: STAT 316, STAT 320, STAT 321, STAT 330.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

STAT 490 - Independent Study

Units: 1-4

Independent study under the supervision a department faculty member.

Prerequisites: Department consent and minimum 2.0 GPA.

Credit Restrictions: No more than 12 units of independent study may be applied in the major department and 8 units in other departments to a baccalaureate degree.

Equivalent Quarter Course: STAT 4900.

Repeatability: May be repeated for credit, with department consent, for a total of 12 units.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

STAT 495 - Data Analysis with SAS

Units: 3

Programming and applying SAS. Data preparation and transformation, macros, descriptive statistics. Topics from diagnostics, t-procedures, ANOVA, nonparametrics, cross-tabulation, chi-squared, correlation, regression. Report writing.

Prerequisites: STAT 330.

Equivalent Quarter Course: STAT 4950.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

STAT 497 - Issues in Statistics

Units: 3

Readings, discussion, and research on contemporary and/or significant issues in statistics.

Equivalent Quarter Course: STAT 3999.

Repeatability: May be repeated for credit when content varies, for a maximum of 6 units.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

STAT 498 - Internship

Units: 1-3

Formal work opportunities integrating the academic program with their career aspirations. Integral hands-on experience enhancing education and preparing for professional and personal success.

Prerequisites: Department consent and minimum 2.0 GPA.

Credit Restrictions: No more than 3 units may be applied to the Statistics major.

Equivalent Quarter Course: STAT 3898.

Repeatability: May be repeated with department consent for a maximum of 6 units.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

Statistics: Graduate

STAT 620 - Probability and Statistical Theory

Units: 4

Probability and Statistical models used in many areas. Selected topics may include: basic probability concepts, probability models (discrete, continuous, univariate, and multivariate), sampling and sampling distributions, confidence intervals, hypothesis testing, expectation and variance, and simulation.

Prerequisites: Admission to M.S. Statistics major or M.S. Biostatistics program.

Equivalent Quarter Course:

STAT 6204 and STAT 6205.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

STAT 630 - Statistical Methods

Units: 4

Random variables, sampling distributions, conditional probability. Expectation. Estimation, method of moments, maximum likelihood. Confidence intervals. Hypothesis testing. Computer-aided computations and simulations. Topics include: t-tests, correlation, regression, proportions, chi-squared, ANOVA, nonparametrics, bootstrapping.

Prerequisites: Admission to M.S. Statistics major or M.S. Biostatistics program.

Equivalent Quarter Course: STAT 6304.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

STAT 631 - Analysis of Variance Models

Units: 4

Models for analysis of variance. Expected mean squares, factorial designs, random effects, nesting, power/sample size, mixed model, balanced/unbalanced designs, ANOVA model assessment. Computer-aided analysis. Report writing.

Prerequisites: STAT 630.

Equivalent Quarter Course: STAT 6305.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

STAT 632 - Linear and Logistic Regression

Units: 4

Simple linear regression, multiple linear regression models and logistic regression models. Inference about model parameters and predictions, diagnostic, assumption checking, remedial measures about the model, and model building. Emphasis on real data from science, engineering, and business. Computer-assisted analysis.

Prerequisites: STAT 630.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

STAT 640 - Advanced Statistical Theory

Units: 4

Theory of point and interval estimation and hypothesis testing from the Neyman-Pearson point of view. May include: decision theory, non-parametric inference, multivariate analysis, Bayesian methods, computer intensive methods, and statistical bootstrapping and simulation.

Prerequisites: STAT 620.

Equivalent Quarter Course: STAT 6501 and STAT 6502.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

STAT 641 - Bootstrapping Methods

Units: 2

Implementation of computationally-advanced statistical methods. Use of modern computing software (e.g. R, Python, SAS). Topics may include: bootstrap, Monte Carlo, and applied statistics.

Prerequisites: STAT 640.

Equivalent Quarter Course: STAT 6601.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

STAT 650 - Advanced R for Data Science

Units: 2

Professional R programming techniques. Data wrangling. R packages. Connections to databases. Use of R for reproducible research. Data Visualization. Use of R in cloud computing. Topics may include applied statistics, data science, and statistical/machine learning. Report writing.

Prerequisites: Post-baccalaureate standing.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

STAT 651 - Data Visualization

Units: 2

Methods used for data visualization and interactive exploration of Big Data. Topics include interactive maps, elements of visual perception, effective graphs and charts, and meaningful visual representations of complex statistics and large data sets. Report writing.

Prerequisites: One of: STAT 600 - STAT 699.

Equivalent Quarter Course: STAT 6610.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

STAT 652 - Statistical Learning

Units: 2

Statistical machine learning overview. Choosing a learning algorithm. Unsupervised learning including classification methods, nearest neighbors, naïve Bayes, decision trees and rules, neural networks, k-means. Supervised learning including linear regression and logistic regression. Model performance and evaluation. Confusion matrix. Report writing.

Prerequisites: Post-baccalaureate standing.

Equivalent Quarter Course: STAT 6620.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

STAT 653 - Statistical Natural Language Processing

Units: 2

Statistical topics used for processing natural language. Text wrangling and cleaning. Creating a word list corpus. Text classification. Web scraping. Social media mining. Data products. Report writing.

Prerequisites: Post-baccalaureate standing.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

STAT 654 - Introduction to Applied Deep Learning

Units: 2

Introduction to neural networks and deep neural networks, training a prediction model, avoiding over-fitting, tuning. Prediction and classification problems. Using R packages or Python to connect to h2o, tensorflow, keras. Report Writing.

Prerequisites: STAT 632.

Co-requisites:

Possible Instructional Methods: *Entirely On-ground.*

Grading: ABC/NC grading only.

STAT 660 - Advanced SAS I

Units: 2

Professional SAS® programming techniques. Data management and processing, Data integrity, Graphical presentation of data, Data reporting techniques. Topics in biostatistics and applied statistics. SAS data step and introduction to SAS macros, SAS reports, SAS SQL, and other relevant programming topics. Introduction to JMP. Report writing.

Prerequisites: One of: STAT 600 - STAT 699.

Equivalent Quarter Course: STAT 6250.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

STAT 661 - Categorical Data Analysis

Units: 2

Applied methods for discrete data. Topics may include: proportions and counts, contingency tables,

loglinear models, logistic regression, Poisson regression, generalized linear models. Data integrity. Computing techniques and analysis of discrete data. Use of SAS. Report writing.

Prerequisites: STAT 631 and STAT 632.

Equivalent Quarter Course: BSTA 6651 or STAT 6651.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

Cross-listed: BSTA 661.

STAT 671 - Advanced JMP

Units: 2

Professional JMP® techniques. Interactive data management and processing, Data integrity, Graphical presentation of data and interactive data wrangling, Data reporting techniques. Design of experiments. Incorporation of external subroutines. Report writing.

Strongly Recommended Preparation: Current enrollment in or completion of a graduate level course in statistics.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

STAT 672 - Advanced Multivariate Statistics

Units: 2

Advanced, computer-based applications of multivariate analysis. Topics may include ANOVA, canonical correlation, principal components, discriminant functions, factor/cluster/spatial analysis. Emphasis on actual data, report writing.

Prerequisites: STAT 631, and either STAT 650 or STAT 660.

Equivalent Quarter Course: STAT 6515.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

STAT 673 - Nonparametric Statistical Methods

Units: 2

Nonparametric methods and distribution-free inferential methods. Topics include: Permutation methods, bootstrapping, and re-sampling methods. Hypothesis testing and estimation procedures. Exact, Monte-Carlo, and asymptotic p-values. Measures of association.

Prerequisites: STAT 631 and STAT 632.

Equivalent Quarter Course: STAT 6872.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

STAT 674 - Time Series

Units: 2

Analysis of correlated data in time, trends, seasonal patterns, periodicity, autocorrelation, spectral analysis, filtering, time domain versus spectral domain. Decomposition, auto-regression, ARIMA, state-space models, forecasting. Applications using to collect data in economics, engineering, seismology. Report writing. Use of statistical software.

Prerequisites: STAT 632.

Equivalent Quarter Course: STAT 6555.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

STAT 675 - Advanced Stochastic Processes and Simulation

Units: 2

Theory of stochastic models, Markov chains: classification, limiting behavior, Continuous-time Markov processes. Poisson, birth-death, Simulations of processes and probability modeling. Monte Carlo integration, Gibbs sampling. Use of statistical software. May include: additional limit theorems, queues, renewal theory, applications.

Prerequisites: STAT 620.

Equivalent Quarter Course: STAT 6310.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

STAT 676 - Advanced Probability

Units: 4

Advanced treatment of probability theory and its applications. May include: expectation, conditioning, generating/characteristic functions, modes of convergence, limit theorems, bivariate distributions, Monte Carlo simulation, Markov processes, combinatorial techniques, Markov Chain Monte Carlo, and Bayesian models.

Prerequisites: STAT 620.

Equivalent Quarter Course: STAT 6401.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

STAT 681 - Bayesian Statistics

Units: 2

Bayes Theorem, subjective probability, conjugate priors, non-informative priors, posterior estimation, credible intervals, prediction, sensitivity analysis, comparison to classical procedures. MCMC, Gibbs sampling, hierarchical Bayesian models. Use of statistical software. Report writing.

Prerequisites: STAT 630.

Equivalent Quarter Course: STAT 6550.

Possible Instructional Methods: *Entirely On-ground.*

Grading: ABC/NC grading only.

STAT 690 - Independent Study

Units: 1-4

Independent study under the supervision of a member of the graduate faculty.

Prerequisites: Department consent and minimum 3.0 GPA.

Equivalent Quarter Course: STAT 6900.

Repeatability: May be repeated for credit, with department consent, for a total of 12 units.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

STAT 692 - Comprehensive Exam Review

Units: 2

An overview of required courses in the M.S. programs in Statistics and Biostatistics. Comprehensive Exam for MS Statistics and Biostatistics programs.

Prerequisites: Admission to M.S. Statistics or M.S. Biostatistics program and department consent.

Possible Instructional Methods: *Entirely On-ground.*

Grading: CR/NC grading only.

STAT 694 - Applied Research in Statistics and Biostatistics

Units: 1-4

A collaborative research experience on a research topic designated by the instructor in the field of Statistics. Students conduct a literature search, develop a research proposal, complete a research project leading to a professional presentation, paper, or report.

Prerequisites: Admission to the Statistics graduate program.

Repeatability: May be repeated for credit for a maximum of 8 units.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

STAT 697 - Issues in Statistics

Units: 3

Readings, discussion, and research on contemporary and/or significant issues in statistics.

Equivalent Quarter Course: STAT 6999.

Repeatability: May be repeated for credit when content varies, for a maximum of 6 units.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

STAT 698 - Internship

Units: 1-3

Formal advanced work opportunities integrating the academic program with their career aspirations.

Integral advanced hands-on experience enhancing education and preparing for professional and personal success.

Prerequisites: Department consent and minimum 3.0 GPA.

Credit Restrictions: No more than 3 units may be applied to the Statistics major.

Equivalent Quarter Course: STAT 6898.

Repeatability: May be repeated with department consent for a maximum of 6 units.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

Teacher Education

TED 301 - Introduction to Education

Units: 3

Exploration of current issues in education through structured observations in T-K through high school classroom. Satisfies 15 hours documented pre-professional work in public schools. Field Component.

Possible Instructional Methods: *Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F grading only.

TED 302 - Introduction to Teaching

Units: 3

Roles and responsibilities of teaching. Self-reflection as a tool for personal growth and development in working with students. Course satisfies completion of 30 hours of documented work with students. Field Component.

Possible Instructional Methods: *Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F grading only.

TED 398 - Internship

Units: 1-3

Introduction to the internship experience; integration of the academic program with career aspirations; emphasis on internship readiness and preparation for professional success.

Prerequisites: Department consent and minimum 2.0 GPA.

Credit Restrictions: No units may be applied to credential programs.

Equivalent Quarter Course: TED 3898.

Repeatability: May be repeated with department consent for a maximum of 6 units.

Possible Instructional Methods: *Entirely On-ground.*

Grading: CR/NC grading only.

TED 420 - Art Skills for Teachers

Units: 3

Designed specifically for teachers with little or no art experience. Work in drawing, printmaking, weaving, papier-mâché puppets, masks, batik, tie dyeing, lettering. Suggestions for translating teacher skills into activities for children. *Lecture Units: 2; Activity Units: 1*

Equivalent Quarter Course: TED 4320.

Repeatability: Course may be repeated once for credit, for a maximum of 6 units.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

TED 425 - Arts Integration for Teachers

Units: 3

Designed specifically for teachers with little or no experience in the visual and performing arts. Work in integrating standards based theater, music, dance, and visual arts into elementary math, science and language arts content. *Lecture Units: 2; Activity Units: 1*

Equivalent Quarter Course: TED 4325.

Repeatability: May be repeated once, for a maximum of 6 units.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

TED 470 - Early Childhood Education: Integrated Language & Literacy Development

Units: 3

Curriculum and instruction for language and literacy development in birth to five years old. Focus on cognition, comprehension, vocabulary, concepts about print, phonemic awareness, and writing development, needs of English Language Learners, and family literacy. Field Component.

Equivalent Quarter Course: TED 4070.

Possible Instructional Methods: *Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F grading only.

TED 471 - Early Childhood Education: Integrated Math and Science

Units: 3

Curriculum and instruction for integrated math and science in an early childhood setting. Focus on inquiry-based math and science instruction, emergent numeracy, concepts of number and pattern, and science concepts. Field component required.

Equivalent Quarter Course: TED 4072.

Possible Instructional Methods: *Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F grading only.

TED 472 - Early Childhood Education: Integrated Arts and Social Studies

Units: 3

Curriculum and instruction for integrated arts and social studies education in programs for birth to five year olds. Focus on integration of the visual and performing arts across the curriculum, family and community cultures. Field component

Equivalent Quarter Course: TED 4073.

Possible Instructional Methods: *Entirely On-ground, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F grading only.

TED 473 - Early Childhood Education: Inclusive Practices

Units: 3

Developmentally appropriate practice for children from birth to five years of age with disabilities, developmental delays, and those "at-risk". Early intervention, preschool programs, and other service delivery approaches examined from a culturally sensitive, family-focused perspective. Field component.

Equivalent Quarter Course: TED 4074.

Possible Instructional Methods: *Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F grading only.

TED 474 - Early Childhood Education: Professional Seminar and Practicum

Units: 4

Culminating course in Early Childhood Education Minor. Focus on preschool models, standards based instruction, positive classroom environment, leadership, parent education and personal growth in selected area of early childhood curriculum. Includes supervised early childhood field practicum. *Seminar Units: 3; Field Studies Units: 1*

Prerequisites: All of: TED 470, TED 471, TED 472, TED 473.

Equivalent Quarter Course: TED 4075.

Possible Instructional Methods: *Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F grading only.

TED 490 - Independent Study

Units: 1-4

Independent study under the supervision a department faculty member.

Prerequisites: Department consent and minimum 2.0 GPA.

Credit Restrictions: No more than 12 units of independent study may be applied in the major department and 8 units in other departments to a baccalaureate degree.

Equivalent Quarter Course: TED 4900.

Repeatability: May be repeated for credit, with department consent, for a total of 12 units.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

TED 497 - Issues in Teacher Education

Units: 3

Readings, discussion, and research on contemporary and/or significant issues in teacher education.

Equivalent Quarter Course: TED 3999.

Repeatability: May be repeated for credit when content varies, for a maximum of 6 units.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

Teacher Education: Graduate

TED 535 - History Social Studies III: Instructional Methods in a Single Subject Classroom

Units: 3

Advanced course in the practice of instructional methodology in a single subject classroom with a focus on evaluation and assessment of social studies instruction to diverse learners.

Prerequisites: Admission to Single Subject Credential Program.

Equivalent Quarter Course: TED 5392 and TED 5393 (Prior to 2016-17), TED 5448 and TED 5449 (2016-17 and 2017-18).

Possible Instructional Methods: *Entirely On-ground, Entirely On-line, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F grading only.

TED 600 - Introduction to Graduate Studies

Units: 1

Familiarize students with online resources, university platforms, and foundations of graduate research studies.

Prerequisites: Admission to MS Early Childhood Education Program.

Equivalent Quarter Course: TED 6902.

Possible Instructional Methods: *Entirely On-ground, Entirely On-line, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F grading only.

TED 601 - Professional Research Seminar I

Units: 1

First course in series designed to familiarize students with research process and reflective practice. Emphasis on Human Subjects, selecting and clarifying topic, on-campus services, and self-reflection.

Prerequisites: TED 600.

Co-requisites: TED 611.

Equivalent Quarter Course: TED 6903.

Possible Instructional Methods: *Entirely On-ground, Entirely On-line, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F grading only.

TED 602 - Professional Research Seminar II

Units: 1

Second course in series designed to familiarize students with research process and reflective practice. Emphasis on components of research paper, innovating on research, clarifying topic importance, and self reflection.

Prerequisites: All of: TED 600, TED 601, TED 611.

Co-requisites: TED 612.

Equivalent Quarter Course: TED 6904.

Possible Instructional Methods: *Entirely On-ground, Entirely On-line, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F grading only.

TED 603 - Professional Research Seminar III

Units: 1

Third course in series designed to familiarize students with research process and reflective practice. Emphasis on creating informal devices to collect and analyze data, writing career plan, and self reflection.

Prerequisites: All of: TED 600, TED 601, TED 602, TED 611, TED 612.

Co-requisites: TED 693.

Equivalent Quarter Course: TED 6905.

Possible Instructional Methods: *Entirely On-ground, Entirely On-line, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F grading only.

TED 611 - Reading and Synthesizing Research in Education

Units: 3

Basic tenets of curriculum and research. Focus on critical analysis and synthesis of published research to write a review of the literature.

Prerequisites: TED 600.

Co-requisites: TED 601.

Equivalent Quarter Course: TED 6300 and TED 6700.

Possible Instructional Methods: *Entirely On-ground, Entirely On-line, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F grading only.

TED 612 - Understanding Design and Planning Research in Education

Units: 3

Writing a research proposal. Methods and procedures of research in education; sources and use of data, permissions, and protocols.

Prerequisites: All of: TED 600, TED 601, TED 611.

Co-requisites: TED 602.

Equivalent Quarter Course: TED 6020.

Possible Instructional Methods: *Entirely On-ground, Entirely On-line, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F grading only.

TED 613 - Implementing and Analyzing Research in P-12

Units: 3

Implementation and analysis of action research. Final synthesis paper and writing for professional purpose in education. Concurrent enrollment in TED 603.

Prerequisites: TED 601, TED 602, TED 611, TED 612.

Co-requisites: TED 603.

Equivalent Quarter Course: TED 6020 and TED 6015

Possible Instructional Methods: *Entirely On-ground, Entirely On-line, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F grading only.

TED 620 - Advanced Studies in Mathematics Education

Units: 3

Current practice and pedagogical issues related to mathematics education that focus on national, state, and local standards. Emphasis on inquiry, problem-solving, conceptual understanding, and mathematical discourse.

Equivalent Quarter Course: TED 6010

Possible Instructional Methods: *Entirely On-ground, Entirely On-line, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F grading only.

TED 621 - Advanced Studies in Science Education

Units: 3

Current practice and pedagogical issues related to science education, focusing on current national and state standards. Emphasis on inquiry-based learning, conceptual understanding and assessment of science while fostering classroom discourse.

Possible Instructional Methods: *Entirely On-ground, Entirely On-line, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: ABC/NC grading only.

TED 622 - Advanced Studies in Expository Reading and Writing

Units: 3

Critical reading, writing, and analytical skills of transitional kindergarten through grade 12 students. Effective and strategic techniques for reading and writing academic prose.

Possible Instructional Methods: *Entirely On-ground, Entirely On-line, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F grading only.

TED 623 - Advanced Studies in Methods for English Language Learners

Units: 3

Advanced work in current methods to develop reading, writing, listening and speaking in target language of students. Basis for specialized curriculum development for multilingual and cross-cultural settings.

Possible Instructional Methods: *Entirely On-ground, Entirely On-line, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F grading only.

TED 624 - Advanced Integrated Arts for All Teachers

Units: 3

Research and practice of using creativity and arts integration as effective pedagogy in all elementary and secondary classrooms. Focus on visual, performing and media arts.

Prerequisites: M.S. Education Program.

Equivalent Quarter Course: TED 4325.

Possible Instructional Methods: *Entirely On-ground, Entirely On-line, Hybrid (every section of this course may be*

taught both online and on-ground).

Grading: A-F grading only.

TED 625 - Teachers as Agents of Change

Units: 3

Develop teachers as agents of change in classrooms and beyond. Models for delivering in-service based on needs assessment. Communication skills, advocacy activities, and strategies for working with communities and families.

Possible Instructional Methods: *Entirely On-ground, Entirely On-line, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F grading only.

TED 626 - Advanced Studies in Curriculum and Instruction

Units: 3

Principles and practices of curriculum and instruction. Critical examination and analysis of the components. Develop and implement curricular recommendations in a classroom setting.

Possible Instructional Methods: *Entirely On-ground, Entirely On-line, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F grading only.

TED 627 - Advanced Educational Psychology

Units: 3

Theories of learning and application to classroom teaching. Analysis of research findings applied to classroom issues and challenges.

Possible Instructional Methods: *Entirely On-ground, Entirely On-line, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F grading only.

TED 630 - Advanced Language & Literacy Development in Early Childhood Education

Units: 4

Curriculum and instruction for language, writing, and literacy development in birth through eight years. Cognition, comprehension, vocabulary, concepts about print, phonemic awareness, phonics, writing development, needs of English Language Learners, and family literacy. Field Component.

Equivalent Quarter Course: TED 6070 and TED 6071.

Possible Instructional Methods: *Entirely On-ground, Entirely On-line, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F grading only.

TED 631 - Advanced Integrated Math & Science in Early Childhood Education

Units: 3

Curriculum and instruction for math and science from birth through 8-years. Inquiry-based and hands-on instruction; emergent numeracy; concepts of number, correspondence, and pattern; instruction in prediction, exploration, and hypotheses. Field component.

Equivalent Quarter Course: TED 6072.

Possible Instructional Methods: *Entirely On-ground, Entirely On-line, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F grading only.

TED 632 - Advanced Integrated Arts & Social Studies in Early Childhood Education

Units: 3

Curriculum and instruction for integrated arts and social studies education from birth through 8-years. Focus on visual and performing arts across the curriculum. Family and community cultures. Field component.

Equivalent Quarter Course: TED 6071 and TED 6073.

Possible Instructional Methods: *Entirely On-ground, Entirely On-line, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F grading only.

TED 633 - Advanced Special Education Practices in Early Childhood Education

Units: 3

Developmentally appropriate practices for children birth through 8-years with high incidence disabilities, developmental delays, and considered at-risk. Early intervention and delivery approaches. Diverse, family-focused perspective. Field component.

Equivalent Quarter Course: TED 6074.

Possible Instructional Methods: *Entirely On-ground, Entirely On-line, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F grading only.

TED 634 - Professional Leadership in Early Childhood Education

Units: 2

Management and models of preschool centers, classrooms, and leadership topics. Critical analysis of current issues. Field Component.

Prerequisites: All of: TED 630, TED 631, TED 632, TED 633.

Co-requisites: TED 635.

Equivalent Quarter Course: TED 6075.

Possible Instructional Methods: *Entirely On-ground, Entirely On-line, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F grading only.

TED 635 - Field Based Practicum in Early Childhood Education

Units: 2

Culminating course in ECE fieldwork. Clinical supervision model. Community advocacy project.

Prerequisites: All of: TED 630, TED 631, TED 632, TED 633.

Co-requisites: TED 634.

Equivalent Quarter Course: TED 6076.

Possible Instructional Methods: *Entirely On-ground, Entirely On-line, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F grading only.

TED 660 - Literacy Research and Methods

Units: 3

Review research; learn normal progression of literacy development relative to grade-level standards; plan, implement, and assess research-based literacy instruction, including phonemic awareness, phonics, fluency, and writing for pre-K and up.

Prerequisites: Department consent.

Possible Instructional Methods: *Entirely On-ground, Entirely On-line, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F grading only.

TED 661 - Reading Comprehension Research and Methods

Units: 2

Review research; plan, implement and assess research-based literacy instruction, including oral language, vocabulary and reading comprehension for pre-K and up; facilitate use of print media and digital resources.

Prerequisites: Admission to M.S. in Reading and Literacy.

Possible Instructional Methods: *Entirely On-ground, Entirely On-line, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F grading only.

TED 662 - Culture of Literacy: Focus on Diversity

Units: 2

Review research; develop a culture of literacy capitalizing on students' diverse knowledge and skills; support second language development; plan, implement and assess instruction to students for diverse ethnic, cultural and socioeconomic groups.

Prerequisites: Admission to M.S. in Reading and Literacy.

Possible Instructional Methods: *Entirely On-ground, Entirely On-line, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F grading only.

TED 663 - Literacy Assessment

Units: 3

Review research; principles of formal and informal literacy-based assessments; select, administer and evaluate assessments for different audiences and purposes.

Prerequisites: Admission to M.S. in Reading and Literacy or Reading and Literacy Added Authorization.

Possible Instructional Methods: *Entirely On-ground, Entirely On-line, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F grading only.

TED 664 - Literacy Intervention

Units: 3

Review research; assess, instruct and provide intervention for each component of research-based literacy instruction; modify the curriculum to address specific needs of students; interpret and use assessment data to inform placement and intervention decisions.

Prerequisites: TED 663 with grade B- or better.

Possible Instructional Methods: *Entirely On-ground, Entirely On-line, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F grading only.

TED 670 - The Science of Reading Foundations

Units: 3

Literacy acquisition fundamentals; problems that some children encounter in learning to read. Practical application of current literacy research.

Prerequisites: Admission to M.S. in Reading and Literacy or Reading and Literacy Added Authorization.

Possible Instructional Methods: *Entirely On-ground, Entirely On-line, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F grading only.

TED 671 - Early Literacy Foundations

Units: 3

Literacy acquisition for children aged 0 - 12 years. Practical application of current literacy research.

Prerequisites: Admission to M.S. in Reading and Literacy or Reading and Literacy Added Authorization.

Possible Instructional Methods: *Entirely On-ground, Entirely On-line, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F grading only.

TED 672 - Secondary Literacy Foundations

Units: 3

Literacy acquisition for youth aged 13-18 years. Practical application of current literacy research.

Prerequisites: Admission to M.S. in Reading and Literacy or Reading and Literacy Added Authorization.

Possible Instructional Methods: *Entirely On-ground, Entirely On-line, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F grading only.

TED 687 - Reading Research & Evaluation

Units: 3

Introduction to research and evaluation of literacy development. Emphasis on language of research, review and analysis of research, and application of research to the classroom, school and other instructional settings. Review of needs assessment and other evaluation forms.

Prerequisites: Admission to M.S. in Reading and Literacy or Reading and Literacy Added Authorization.

Possible Instructional Methods: *Entirely On-ground, Entirely On-line, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F grading only.

TED 688 - Research in Education

Units: 1

Seminar in methods and procedures of research tools in education; sources and uses of data. Critical analysis of published research; preparation of a research project to include references, rationale, and outline.

Prerequisites: Admission to Reading Certificate (Added Authorization) or MS in Reading and Literacy Program and completion of TED 687 with a grade of B- or greater.

Possible Instructional Methods: *Entirely On-ground, Entirely On-line, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F grading only.

TED 690 - Independent Study

Units: 1-3

Independent study under direction of faculty.

Prerequisites: Department consent and minimum 3.0 GPA.

Equivalent Quarter Course: TED 6900.

Repeatability: May be repeated for credit for a maximum of 9 units.

Possible Instructional Methods: *Entirely On-ground, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F grading only.

TED 691 - University Thesis

Units: 1-4

Develop and write a formal research paper for submission to the University in a specified format. Supervision by a department committee, at least one of whom must be a Cal State East Bay faculty member.

Prerequisites: Department consent.

Repeatability: Course may be repeated for credit for a maximum of 4 units.

Possible Instructional Methods: *Entirely On-ground, Entirely On-line, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F grading only.

TED 692 - Comprehensive Examination Preparation

Units: 2

Preparation for graduate comprehensive examination. Directed readings and review of sample questions.

Prerequisites: Department consent.

Possible Instructional Methods: *Entirely On-ground, Entirely On-line, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: CR/NC grading only.

TED 693 - Master's Project

Units: 3

Implementation and analysis of action research. Final syntheses paper and writing for professional purposes in education.

Prerequisites: All of: TED 600, TED 601, TED 602, TED 611, TED 612.

Co-requisites: TED 603.

Equivalent Quarter Course: TED 6901.

Possible Instructional Methods: *Entirely On-ground, Entirely On-line, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F grading only.

TED 695 - Practicum

Units: 1

Work with a struggling 4th- 8th grade student in reading comprehension. Plan, implement and assess lessons. Review progress towards goals in continuous planning cycle. Conduct final assessment and

analyze data for final report.

Prerequisites: Admission to M.S. in Reading and Literacy.

Co-requisites: TED 661, and TED 662.

Possible Instructional Methods: *Entirely On-ground, Entirely On-line, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F grading only.

TED 697 - Issues in Teacher Education

Units: 1-4

Readings and discussion on issues in teacher education. Topics vary by semester.

Repeatability: May be repeated for multiple topics for a maximum of 8 units.

Possible Instructional Methods: *Entirely On-ground, Entirely On-line, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F grading only.

TED 698 - Internship

Units: 1-3

Formal advanced work opportunities integrating the academic program with their career aspirations.

Integral advanced hands-on experience enhancing education and preparing for professional and personal success.

Prerequisites: Department consent.

Repeatability: May be repeated for credit for a maximum of 6 units.

Possible Instructional Methods: *Entirely On-ground, Entirely On-line, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F grading only.

TED 699 - Department Thesis

Units: 1-4

Develop and write a formal research paper for submission to the Department in a specified format.

Supervision by a department committee, at least one of whom must be a Cal State East Bay faculty member.

Prerequisites: Department consent.

Repeatability: Course may be repeated for credit for a maximum of 4 units.

Possible Instructional Methods: *Entirely On-ground, Entirely On-line, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F grading only.

Teacher Education: Post-Baccalaureate

TED 500 - Foundations of Multiple Subject Education

Units: 4

Foundations of education for elementary classrooms; application of learning principles for students, including those in multicultural settings; instruction and planning in the multiple-subject classroom.

Prerequisites: Admission to Multiple Subject Credential Program.

Equivalent Quarter Course: TED 5351 and TED 5311.

Possible Instructional Methods: *Entirely On-ground, Entirely On-line, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F grading only.

TED 501 - Introduction to Teaching Emergent Bilinguals

Units: 1

Guided Language Acquisition and Design (GLAD) practices that address the English language and subject-matter learning needs of emergent bilinguals in a multiple subject classroom.

Prerequisites: Admission to Multiple Subject Credential Program.

Possible Instructional Methods: *Entirely On-ground, Entirely On-line, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F grading only.

TED 502 - Inclusive Teaching Practices in a Multiple Subject Classroom

Units: 3

Theory, content, and methods of teaching emergent bilinguals/English Learners in the elementary classroom; Principles of equity and diversity for emergent bilinguals, English learners and all students.

Prerequisites: Admission to Multiple Subject Credential Program.

Equivalent Quarter Course: TED 5355.

Possible Instructional Methods: *Entirely On-ground, Entirely On-line, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F grading only.

TED 503 - Equitable Teaching Practices in a Multiple Subject Classroom

Units: 3

Methods for teaching with emergent bilinguals and English learners; methods for working with special education students; teaching for equity and diversity for all students.

Prerequisites: TED 502.

Equivalent Quarter Course: TED 5366.

Possible Instructional Methods: *Entirely On-ground, Entirely On-line, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F grading only.

TED 504 - Introduction to Teaching Special Populations

Units: 1

Overview of and introduction to appropriate differentiated, individualized and classroom instructional strategies for a multiple subject setting.

Prerequisites: Admission to Multiple Subject Credential Program.

Possible Instructional Methods: *Entirely On-ground, Entirely On-line, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F grading only.

TED 505 - Teaching English Learners in the Multiple Subject Classroom

Units: 3

Theory, content, and methods of teaching emergent bilinguals/English Learners in the elementary classroom; Principles of equity and diversity for emergent bilinguals, English learners and all students.

Prerequisites: Admission to Concurrent Multiple Subject and Education Specialist Credential Program and M.S. in Special Education.

Equivalent Quarter Course: TED 5355.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

TED 507 - Technology in the Multiple Subject Classroom

Units: 2

General and specific knowledge and skills appropriate to educational settings. Explores operations and concepts of basic technology and current trends in order to enhance personal and professional growth and productivity; integration of technology into the classroom.

Prerequisites: Admission to Multiple Subject Credential Program.

Equivalent Quarter Course: TED 5110.

Possible Instructional Methods: *Entirely On-ground, Entirely On-line, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F grading only.

TED 508 - Curriculum & Instruction: Reading

Units: 3

Theory, content and methods of a balanced, comprehensive program in reading, writing, and related language instruction in K-8 classrooms. Emphasis on research, phonemic awareness, phonics, word identification strategies, spelling, literature, state-adopted texts, application to English Learners and planning for instruction.

Prerequisites: Admission to Multiple Subject Credential Program.

Equivalent Quarter Course: TED 5352.

Possible Instructional Methods: *Entirely On-ground, Entirely On-line, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F grading only.

TED 509 - Curriculum & Instruction: Language Arts and Social Studies

Units: 4

Focus on development of a balanced, comprehensive program in reading, writing, and related language instruction in K-8 classrooms based on the California Language Arts Standards. Theory, content, and methods of teaching social studies in the elementary classroom.

Prerequisites: TED 508 with a C or better.

Equivalent Quarter Course: TED 5360

Possible Instructional Methods: *Entirely On-ground, Entirely On-line, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F grading only.

TED 510 - Curriculum & Instruction: Mathematics in a Multiple Subject Classroom

Units: 3

Theory, content, and methods of teaching mathematics in the elementary classroom. Emphasis on number systems, operations, problem solving, assessment, resource materials, and sheltered instruction for English Learners/Emergent Bilinguals.

Prerequisites: Admission to Multiple Subject Credential Program.

Equivalent Quarter Course: TED 5350.

Possible Instructional Methods: *Entirely On-ground, Entirely On-line, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F grading only.

TED 511 - Curriculum & Instruction: Visual & Performing Arts

Units: 2

Theory, content, and methods of teaching visual and performing arts and methods of integrative teaching in the elementary classroom. Emphasis on problem based learning, integrative pedagogies across current standards and frameworks and sheltered instruction for English Learners/Emergent Bilinguals.

Prerequisites: Admission to Multiple Subject Credential Program.

Equivalent Quarter Course: TED 5377.

Possible Instructional Methods: *Entirely On-ground, Entirely On-line, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F grading only.

TED 512 - Curriculum & Instruction: Science in the Multiple Subject Classroom

Units: 3

Theory, content, and methods of teaching science in the elementary classroom. Emphasis on hands-on learning, STEM instruction, current science standards and framework and sheltered instruction for English Learners/Emergent Bilinguals.

Prerequisites: Admission to Multiple Subject Credential Program.

Equivalent Quarter Course: TED 5357.

Possible Instructional Methods: *Entirely On-ground, Entirely On-line, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F grading only.

TED 513 - Curriculum & Instruction: Health and Physical Education

Units: 2

Theory, content, and methods of teaching health and PE in the elementary classroom. Emphasis on integration of health and PE, current and inclusive pedagogy and teaching English Learners/Emergent Bilinguals.

Prerequisites: Admission to Multiple Subject Credential Program.

Equivalent Quarter Course: TED 5376.

Possible Instructional Methods: *Entirely On-ground, Entirely On-line, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F grading only.

TED 520 - Foundations of Single Subject Education

Units: 4

Foundations of education for middle school and high school classrooms; emphasis on application of learning principles for students, including multicultural settings; instruction and planning in the single subject classroom.

Prerequisites: Admission to Single Subject Credential Program.

Equivalent Quarter Course: TED 5301 and 5311.

Possible Instructional Methods: *Entirely On-ground, Entirely On-line, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F grading only.

TED 521 - Content Literacy for All Learners

Units: 4

Theory, research, and instructional methodology to teach content-based reading and writing skills to a full range of secondary-school students, including struggling readers, students with special needs, English learners and speakers of non-standard English, and advanced learners.

Prerequisites: Admission to Single Subject Credential Program.

Equivalent Quarter Course: TED 5320.

Possible Instructional Methods: *Entirely On-ground, Entirely On-line, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F grading only.

TED 522 - Introduction to Teaching Emergent Bilinguals

Units: 1

Guided Language Acquisition and Design (GLAD) practices that address the English language and subject-matter learning needs of emergent bilinguals.

Prerequisites: Admission to Single Subject Credential Program.

Possible Instructional Methods: *Entirely On-ground, Entirely On-line, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F grading only.

TED 523 - Inclusive Teaching Practices in a Single Subject Classroom A

Units: 3

Principles, policies, and practices that address the English language and subject matter learning needs of English learners. Development of effective patterns, strategies, materials to assist prospective teachers to work with the broad range of identified, gifted and at-risk students.

Prerequisites: Admission to Single Subject Credential Program.

Equivalent Quarter Course: TED 5326

Possible Instructional Methods: *Entirely On-ground, Entirely On-line, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F grading only.

TED 524 - Inclusive Teaching Practices in a Single Subject Classroom B

Units: 3

Concluding course in sequence addressing the needs of English language learners/emergent bilinguals and special education students in general education classrooms.

Prerequisites: Admission to Single Subject Credential Program.

Possible Instructional Methods: *Entirely On-ground, Entirely On-line, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F grading only.

TED 525 - Teaching Special Education Students in a Single Subject Classroom

Units: 1

Overview of and introduction to appropriate differentiated, individualized and classroom instructional strategies for single subject settings.

Prerequisites: Admission to Single Subject Credential Program.

Possible Instructional Methods: *Entirely On-ground, Entirely On-line, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F grading only.

TED 528 - Technology in the Single Subject Classroom

Units: 2

General and specific knowledge and skills appropriate to educational settings. Explores operations and concepts of basic technology and current trends in order to enhance personal and professional growth and productivity, integration of technology into the classroom.

Prerequisites: Admission to Single Subject Credential Program.

Equivalent Quarter Course: TED 5110.

Possible Instructional Methods: *Entirely On-ground, Entirely On-line, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F grading only.

TED 529 - Professional Responsibilities in Education

Units: 3

Professional issues, rights and responsibilities of teachers and students. Self-assessment and self-direction for continuing professional growth.

Prerequisites: Admission to Single Subject Credential Program.

Equivalent Quarter Course: TED 5318.

Possible Instructional Methods: *Entirely On-ground, Entirely On-line, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F grading only.

TED 530 - English I: Instructional Methods in a Single Subject Classroom

Units: 3

Introductory course in the practice of instructional methodology in a single subject classroom with a focus on the theory and practice of English instruction to diverse learners.

Prerequisites: Admission to Single Subject Credential Program.

Equivalent Quarter Course: TED 5390 and TED 5391 (Prior to 2016-17), TED 5450 and TED 5451 (2016-17 and 2017-18).

Possible Instructional Methods: *Entirely On-ground, Entirely On-line, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F grading only.

TED 531 - English II: Instructional Methods in a Single Subject Classroom

Units: 3

Intermediate course in the practice of instructional methodology in a single subject classroom with a focus on planning and delivery of English instruction to diverse learners.

Prerequisites: Admission to Single Subject Credential Program.

Equivalent Quarter Course: TED 5391 and TED 5392 (Prior to 2016-17), TED 5451 and TED 5452 (2016-17 and 2018-19).

Possible Instructional Methods: *Entirely On-ground, Entirely On-line, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F grading only.

TED 532 - English III: Instructional Methods in a Single Subject Classroom

Units: 3

Advanced course in the practice of instructional methodology in a single subject classroom with a focus on evaluation and assessment of English instruction to diverse learners.

Prerequisites: Admission to Single Subject Credential Program.

Equivalent Quarter Course: TED 5392 and TED 5393 (Prior to 2016-17), TED 5452 and TED 5453 (2016-17 and 2017-18).

Possible Instructional Methods: *Entirely On-ground, Entirely On-line, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F grading only.

TED 533 - Historical Social Studies I: Instructional Methods in a Single Subject Classroom

Units: 3

Introductory course in the practice of instructional methodology in a single subject classroom with a focus on the theory and practice of social studies instruction to diverse learners.

Prerequisites: Admission to Single Subject Credential Program.

Equivalent Quarter Course: TED 5390 and TED 5391 (Prior to 2016-17), TED 5446 and TED 5447 (2016-17 and 2017-18).

Possible Instructional Methods: *Entirely On-ground, Entirely On-line, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F grading only.

TED 534 - History Social Studies II: Instructional Methods in a Single Subject Classroom

Units: 3

Intermediate course in the practice of instructional methodology in a single subject classroom with a focus on planning and delivery of social studies instruction to diverse learners.

Prerequisites: Admission to Single Subject Credential Program.

Equivalent Quarter Course: TED 5391 and TED 5392 (Prior to 2016-17), TED 5447 and TED 5448 (2016-17 and 2017-18).

Possible Instructional Methods: *Entirely On-ground, Entirely On-line, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F grading only.

TED 536 - Science I: Instructional Methods in a Single Subject Classroom

Units: 3

Introductory course in the practice of instructional methodology in a single subject classroom with a focus on the theory and practice of science instruction to diverse learners.

Prerequisites: Admission to Single Subject Credential Program.

Equivalent Quarter Course: TED 5390 and TED 5391 (Prior to 2016-17), TED 5458 and TED 5459 (2016-17 and 2017-18).

Possible Instructional Methods: *Entirely On-ground, Entirely On-line, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F grading only.

TED 537 - Science II: Instructional Methods in a Single Subject Classroom

Units: 3

Intermediate course in the practice of instructional methodology in a single subject classroom with a focus on planning and delivery of science instruction to diverse learners.

Prerequisites: Admission to Single Subject Credential Program.

Equivalent Quarter Course: TED 5391 and TED 5392 (Prior to 2016-17), TED 5459 and TED 5460 (2016-17 and 2017-18).

Possible Instructional Methods: *Entirely On-ground, Entirely On-line, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F grading only.

TED 538 - Science III: Instructional Methods in a Single Subject Classroom

Units: 3

Advanced course in the practice of instructional methodology in a single subject classroom with a focus on evaluation and assessment of science instruction to diverse learners.

Prerequisites: Admission to Single Subject Credential Program.

Equivalent Quarter Course: TED 5392 and TED 5393 (Prior to 2016-17), TED 5460 and TED 5461 (2016-17 and 2017-18).

Possible Instructional Methods: *Entirely On-ground, Entirely On-line, Hybrid (every section of this course may be*

taught both online and on-ground).

Grading: A-F grading only.

TED 539 - Mathematics I: Instructional Methods in a Single Subject Classroom

Units: 3

Introductory course in the practice of instructional methodology in a single subject classroom with a focus on the theory and practice of mathematical methods instruction to diverse learners.

Prerequisites: Admission to Single Subject Credential Program.

Equivalent Quarter Course: TED 5390 and TED 5391 (Prior to 2016-17), TED 5454 and TED 5455 (2016-17 and 2017-18).

Possible Instructional Methods: *Entirely On-ground, Entirely On-line, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F grading only.

TED 540 - Mathematics II: Instructional Methods in a Single Subject Classroom

Units: 3

Intermediate course in the practice of instructional methodology in a single subject classroom with a focus on planning and delivery of mathematical methods instruction to diverse learners.

Prerequisites: Admission to Single Subject Credential Program.

Equivalent Quarter Course: TED 5391 and TED 5392 (Prior to 2016-17), TED 5455 and TED 5456 (2016-17 and 2017-18).

Possible Instructional Methods: *Entirely On-ground, Entirely On-line, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F grading only.

TED 541 - Mathematics III: Instructional Methods in a Single Subject Classroom

Units: 3

Introduction to theory and practice of instructional methodology in a single subject classroom. Separate courses for art, Chinese, dance, English, French, Hindi, mathematics, music, physical education, science, social studies, Spanish and theater.

Prerequisites: Admission to Single Subject Credential Program.

Equivalent Quarter Course: TED 5392 and TED 5393 (Prior to 2016-17), TED 5456 and TED 5457 (2016-17 and 2017-18).

Possible Instructional Methods: *Entirely On-ground, Entirely On-line, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F grading only.

TED 542 - Visual Arts I: Instructional Methods in a Single Subject Classroom

Units: 3

Introduction to theory and practice of instructional methodology in a single subject classroom. Separate courses for art, Chinese, dance, English, French, Hindi, mathematics, music, physical education, science, social studies, Spanish and theater.

Prerequisites: Admission to Single Subject Credential Program.

Equivalent Quarter Course: TED 5390 and TED 5391 (Prior to 2016-17), TED 5462 and TED 5463 (2016-17 and 2017-18).

Possible Instructional Methods: *Entirely On-ground, Entirely On-line, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F grading only.

TED 543 - Visual Arts II: Instructional Methods in a Single Subject Classroom

Units: 3

Theory and practice of instructional methodology in a single subject classroom. Application in the beginning weeks of a teaching assignment. Separate courses for art, Chinese, dance, English, French, Hindi, mathematics, music, physical education, science, social studies, Spanish and theater.

Prerequisites: Admission to Single Subject Credential Program.

Equivalent Quarter Course: TED 5391 and TED 5392 (prior to 2016-17), TED 5463 and TED 5464 (2016-17 and 2017-18).

Possible Instructional Methods: *Entirely On-ground, Entirely On-line, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F grading only.

TED 544 - Visual Arts III: Instructional Methods in a Single Subject Classroom

Units: 3

Introduction to theory and practice of instructional methodology in a single subject classroom. Separate courses for art, Chinese, dance, English, French, Hindi, mathematics, music, physical education, science, social studies, Spanish and theater.

Prerequisites: Admission to Single Subject Credential Program.

Equivalent Quarter Course: TED 5392 and TED 5393 (Prior to 2016-17), TED 5465 and TED 5466 (2016-17 and 2017-18).

Possible Instructional Methods: *Entirely On-ground, Entirely On-line, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F grading only.

TED 545 - Music I: Instructional Methods in a Single Subject Classroom

Units: 3

Introduction to theory and practice of instructional methodology in a single subject classroom. Separate courses for art, Chinese, dance, English, French, Hindi, mathematics, music, physical education, science,

social studies, Spanish and theater.

Prerequisites: Admission to Single Subject Credential Program.

Equivalent Quarter Course: TED 5390 and TED 5391 (Prior to 2016-17), TED 5466 and TED 5467 (2016-17 and 2017-18).

Possible Instructional Methods: *Entirely On-ground, Entirely On-line, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F grading only.

TED 546 - Music II: Instructional Methods in a Single Subject Classroom

Units: 3

Intermediate course in the practice of instructional methodology in a single subject classroom with a focus on planning and delivery of Music instruction to diverse learners.

Prerequisites: Admission to Single Subject Credential Program.

Equivalent Quarter Course: TED 5391 and TED 5392 (Prior to 2016-17), TED 5468 and TED 5469 (2016-17 and 2017-18).

Possible Instructional Methods: *Entirely On-ground, Entirely On-line, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F grading only.

TED 547 - Music III: Instructional Methods in a Single Subject Classroom

Units: 3

Advanced course in the practice of instructional methodology in a single subject classroom with a focus on evaluation and assessment of Music instruction to diverse learners.

Prerequisites: Admission to Single Subject Credential Program.

Equivalent Quarter Course: TED 5392 and TED 5393 (Prior to 2016-17), TED 5469 and TED 5470 (2016-17 and 2017-18).

Possible Instructional Methods: *Entirely On-ground, Entirely On-line, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F grading only.

TED 548 - Physical Education I- Instructional Methods in a Single Subject Classroom

Units: 3

Introductory course in the practice of instructional methodology in a single subject classroom with a focus on the theory and practice of Physical Education instruction to diverse learners.

Prerequisites: Admission to Single Subject Credential Program.

Equivalent Quarter Course: TED 5390 and TED 5391 (Prior to 2016-17), TED 5480 and TED 5481 (2016-17 and 2017-18).

Possible Instructional Methods: *Entirely On-ground, Entirely On-line, Hybrid (every section of this course may be*

taught both online and on-ground).

Grading: A-F grading only.

TED 549 - Physical Education II- Instructional Methods in a Single Subject Classroom

Units: 3

Intermediate course in the practice of instructional methodology in a single subject classroom with a focus on planning and delivery of Physical Education instruction to diverse learners.

Prerequisites: Admission to Single Subject Credential Program.

Equivalent Quarter Course: TED 5391 and TED 5392 (Prior to 2016-17), TED 5481 and TED 5482 (2016-17 and 2017-18).

Possible Instructional Methods: *Entirely On-ground, Entirely On-line, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F grading only.

TED 550 - Physical Education III - Instructional Methods in a Single Subject Classroom

Units: 3

Advanced course in the practice of instructional methodology in a single subject classroom with a focus on evaluation and assessment of Physical Education instruction to diverse learners.

Prerequisites: Admission to Single Subject Credential Program.

Equivalent Quarter Course: TED 5392 and TED 5393 (Prior to 2016-17), TED 5482 and TED 5483 (2016-17 and 2017-18).

Possible Instructional Methods: *Entirely On-ground, Entirely On-line, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F grading only.

TED 551 - Spanish I- Instructional Methods in a Single Subject Classroom

Units: 3

Introductory course in the practice of instructional methodology in a single subject classroom with a focus on the theory and practice of Spanish instruction to diverse learners.

Prerequisites: Admission to Single Subject Credential Program.

Equivalent Quarter Course: TED 5390 and TED 5391 (Prior to 2016-17), TED 5450 and TED 5471 (2016-17 and 2017-18).

Possible Instructional Methods: *Entirely On-ground, Entirely On-line, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F grading only.

TED 552 - Spanish II: Instructional Methods in a Single Subject Classroom

Units: 3

Intermediate course in the practice of instructional methodology in a single subject classroom with a focus on planning and delivery of Spanish instruction to diverse learners.

Prerequisites: Admission to Single Subject Credential Program.

Equivalent Quarter Course: TED 5391 and TED 5392 (prior to 2016-17), TED 5371 and TED 5372 (2016-17 and 2017-18).

Possible Instructional Methods: *Entirely On-ground, Entirely On-line, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F grading only.

TED 553 - Spanish III - Instructional Methods in a Single Subject Classroom

Units: 3

Advanced course in the practice of instructional methodology in a single subject classroom with a focus on evaluation and assessment of Spanish instruction to diverse learners.

Prerequisites: Admission to Single Subject Credential Program.

Equivalent Quarter Course: TED 5392 and TED 5393 (prior to 2016-17), TED 5472 and TED 5473 (2016-17 and 2017-18).

Possible Instructional Methods: *Entirely On-ground, Entirely On-line, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F grading only.

TED 554 - French I - Instructional Methods in a Single Subject Classroom

Units: 3

Introductory course in the practice of instructional methodology in a single subject classroom with a focus on the theory and practice of French instruction to diverse learners.

Prerequisites: Admission to Single Subject Credential Program.

Possible Instructional Methods: *Entirely On-ground, Entirely On-line, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F grading only.

TED 555 - French II - Instructional Methods in a Single Subject Classroom

Units: 3

Intermediate course in the practice of instructional methodology in a single subject classroom with a focus on planning and delivery of French instruction to diverse learners.

Prerequisites: Admission to Single Subject Credential Program.

Possible Instructional Methods: *Entirely On-ground, Entirely On-line, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F grading only.

TED 556 - French III - Instructional Methods in a Single Subject Classroom

Units: 3

Advanced course in the practice of instructional methodology in a single subject classroom with a focus on evaluation and assessment of French instruction to diverse learners.

Prerequisites: Admission to Single Subject Credential Program.

Possible Instructional Methods: *Entirely On-ground, Entirely On-line, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F grading only.

TED 557 - Hindi I: Instructional Methods in a Single Subject Classroom

Units: 3

Introductory course in the practice of instructional methodology in a single subject classroom with a focus on the theory and practice of Hindi instruction to diverse learners.

Prerequisites: Admission to Single Subject Credential Program.

Equivalent Quarter Course: TED 5390 and TED 5391 (prior to 2016-17), TED 5474 and TED 5475 (2016-17 and 2017-18).

Possible Instructional Methods: *Entirely On-ground, Entirely On-line, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F grading only.

TED 558 - Hindi II: Instructional Methods in a Single Subject Classroom

Units: 3

Intermediate course in the practice of instructional methodology in a single subject classroom with a focus on planning and delivery of Hindi instruction to diverse learners.

Prerequisites: Admission to Single Subject Credential Program.

Equivalent Quarter Course: TED 5391 and TED 5392 (prior to 2016-17), TED 5475 and TED 5476 (2016-17 and 2017-18).

Possible Instructional Methods: *Entirely On-ground, Entirely On-line, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F grading only.

TED 559 - Hindi III: Instructional Methods in a Single Subject Classroom

Units: 3

Advanced course in the practice of instructional methodology in a single subject classroom with a focus on evaluation and assessment of Hindi instruction to diverse learners.

Prerequisites: Admission to Single Subject Credential Program.

Equivalent Quarter Course: TED 5392 and TED 5393 (prior to 2016-17), TED 5476 and TED 5477

(2016-17 and 2017-18).

Possible Instructional Methods: *Entirely On-ground, Entirely On-line, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F grading only.

TED 560 - Chinese I: Instructional Methods in a Single Subject Classroom

Units: 3

Introductory course in the practice of instructional methodology in a single subject classroom with a focus on the theory and practice of Chinese instruction to diverse learners.

Prerequisites: Admission to Single Subject Credential Program.

Possible Instructional Methods: *Entirely On-ground, Entirely On-line, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F grading only.

TED 561 - Chinese II: Instructional Methods in a Single Subject Classroom

Units: 3

Intermediate course in the practice of instructional methodology in a single subject classroom with a focus on planning and delivery of Chinese instruction to diverse learners.

Prerequisites: Admission to Single Subject Credential Program.

Possible Instructional Methods: *Entirely On-ground, Entirely On-line, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F grading only.

TED 562 - Chinese III: Instructional Methods in a Single Subject Classroom

Units: 3

Advanced course in the practice of instructional methodology in a single subject classroom with a focus on evaluation and assessment of Chinese instruction to diverse learners.

Prerequisites: Admission to Single Subject Credential Program.

Possible Instructional Methods: *Entirely On-ground, Entirely On-line, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F grading only.

TED 570 - Multiple Subject Fieldwork Seminar I

Units: 1

Seminar to support first semester of multiple subject fieldwork.

Prerequisites: Admission to Multiple Subject Credential Program.

Co-requisites: TED 580 or TED 582.

Possible Instructional Methods: *Entirely On-ground.*

Grading: ABC/NC grading only.

TED 571 - Multiple Subject Fieldwork Seminar II

Units: 1

Seminar to support second semester of multiple subject fieldwork.

Prerequisites: Admission to Multiple Subject Credential Program.

Co-requisites: TED 581 or TED 583.

Possible Instructional Methods: *Entirely On-ground.*

Grading: ABC/NC grading only.

TED 575 - Single Subject Fieldwork Seminar I

Units: 1

Seminar to support first semester of single subject fieldwork.

Prerequisites: Admission to Single Subject Credential Program.

Co-requisites: TED 585 or TED 587.

Possible Instructional Methods: *Entirely On-ground.*

Grading: ABC/NC grading only.

TED 576 - Single Subject Fieldwork Seminar II

Units: 1

Seminar to support second semester of single subject fieldwork.

Prerequisites: Admission to Single Subject Credential Program.

Co-requisites: TED 586, or TED 588.

Possible Instructional Methods: *Entirely On-ground.*

Grading: ABC/NC grading only.

TED 580 - Multiple Subject Student Teaching I

Units: 4

Required field work for multiple subject credential candidates.

Prerequisites: Admission to Multiple Subject Credential Program.

Co-requisites: TED 570.

Equivalent Quarter Course: TED 5354.

Possible Instructional Methods: *Entirely On-ground.*

Grading: CR/NC grading only.

TED 581 - Multiple Subject Student Teaching II

Units: 5

Required field experience for multiple subject credential.

Prerequisites: Admission to Multiple Subject Credential Program.

Co-requisites: TED 571.

Equivalent Quarter Course: TED 5359 and TED 5361.

Possible Instructional Methods: *Entirely On-ground.*

Grading: CR/NC grading only.

TED 582 - Multiple Subject Intern Teaching I

Units: 5

Required fieldwork for multiple subject credential candidates.

Prerequisites: Admission to Multiple Subject Credential Program.

Co-requisites: TED 570.

Equivalent Quarter Course: TED 5354.

Possible Instructional Methods: *Entirely On-ground.*

Grading: ABC/NC grading only.

TED 583 - Multiple Subject Intern Teaching II

Units: 5

Required fieldwork for multiple subject credential candidate.

Prerequisites: Admission to Multiple Subject Credential Program.

Co-requisites: TED 571.

Equivalent Quarter Course: TED 5359 and TED 5361.

Possible Instructional Methods: *Entirely On-ground.*

Grading: ABC/NC grading only.

TED 585 - Single Subject Field Placement I

Units: 5

Required field experience for single subject credential candidates.

Prerequisites: Admission to Single Subject Credential Program.

Co-requisites: TED 575.

Equivalent Quarter Course: TED 5381.

Possible Instructional Methods: *Entirely On-ground.*

Grading: ABC/NC grading only.

TED 586 - Single Subject Field Placement II

Units: 5

Required field experience for single subject credential candidates.

Prerequisites: Admission to Single Subject Credential Program.

Co-requisites: TED 576.

Equivalent Quarter Course: TED 5382 and TED 5383.

Possible Instructional Methods: *Entirely On-ground.*

Grading: ABC/NC grading only.

TED 587 - Single Subject Intern Teaching I

Units: 5

Required field experience for single subject credential candidates.

Prerequisites: Admission to Single Subject Credential Program.

Co-requisites: TED 575.

Equivalent Quarter Course: TED 5381 and TED 5382.

Possible Instructional Methods: *Entirely On-ground.*

Grading: ABC/NC grading only.

TED 588 - Single Subject Intern Teaching II

Units: 5

Required field experience for single subject credential candidates.

Prerequisites: Admission to Single Subject Credential Program.

Co-requisites: TED 576.

Equivalent Quarter Course: TED 5381 and 5382.

Possible Instructional Methods: *Entirely On-ground.*

Grading: ABC/NC grading only.

Theatre Arts: Activity

THEA 150 - Improvisation for Life, Stage and Wellbeing

Units: 2 ; G.E./G.R. Area: C1

The tools and the power of play. Developing creative, ingenious change makers in all disciplines and facets of life. Improvisation is the ability to "be in the moment," a critical ingredient for our global survival.

Credit Restrictions: Only 2-units of this course are applicable towards major.

Repeatability: May be repeated for a maximum of 8 units.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

G.E./G.R. Area Satisfied: *C1 - Lower Division Arts*

THEA 151 - Fundamentals of Acting

Units: 3

Using exercises to free the body, intelligence, voice and emotions in the service of relating a memorized text to the given circumstances. Using action, objective, and obstacle and investing them with high stakes.

Discussion Units: 2; Activity Units: 1

Equivalent Quarter Course: THEA 2035 or THEA 1020.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

THEA 251 - Stage Voice and Classical Repertoire

Units: 2

Fundamentals of voice production. Includes warm-ups, resonance, relaxation, projection, and breath control, articulation, emphasis, and dialect work in Standard British, Cockney and Irish.

Equivalent Quarter Course: THEA 2031 and THEA 2032.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

THEA 252 - Voice and Movement for Actors

Units: 2

The connection of body and voice in the art of stage acting. Emphasis on creating a powerful unified vocal and physical performance presence onstage. Focus on accessing classical texts, realistic and abstract performance, and songs.

Prerequisites: Theatre Arts major.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

THEA 255 - Acting on Camera

Units: 3 ; G.E./G.R. Area: C1

The art and technique of acting on camera. Defining your "type" on camera. Meeting the demands and challenges of the camera. Monologue and scene work for film, television, and commercial auditions.

Prerequisites: THEA 110 or THEA 151.

Equivalent Quarter Course: THEA 3052.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

G.E./G.R. Area Satisfied: *C1 - Lower Division Arts*

THEA 341 - Dramatic Activities for Children

Units: 3 ; G.E./G.R. Area: C4

Theatre as a means to build and develop creative capacity in children. Includes theatre games, improvisation, puppetry, mask making, and other dramatic activities. Creating lesson plans and teaching a variety of content with creative drama techniques. *Lecture Units: 2; Activity Units: 1*

Prerequisites: Completion of GE areas A1, A2, A3 and B4.

Equivalent Quarter Course: THEA 3650.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

G.E./G.R. Area Satisfied: *C4 - Upper Division Arts or Humanities*

THEA 351 - Intermediate Acting

Units: 3

Builds on the basics of actor training through the principles of Constantine Stanislavski. Stress on the actor's ability to use "self" believably, as well as willingness to transform that "self" beyond its boundaries. *Discussion Units: 2; Activity Units: 1*

Prerequisites: THEA 110 or THEA 151.

Equivalent Quarter Course: THEA 3057.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

THEA 371 - Musical Theatre Techniques

Units: 3

Solo songs as monologues; analyzing the musical notations; emotional journey of a song; physically embodying the song. Healthy singing technique. Staging of group songs emphasizing singing, dancing, and acting as an ensemble.

Equivalent Quarter Course: Any one from: THEA 3048, THEA 3049, THEA 4048, THEA 4049.

Repeatability: May be repeated for credit for a maximum of 8 units.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

THEA 372 - Musical Theatre Rehearsal

Units: 1

Rehearsal technique and performance of small ensemble musicals or musical revues. Developing characterizations based on singing, dance, and acting techniques; working as an ensemble; and, heightened lyricism.

Prerequisites: THEA 371.

Equivalent Quarter Course: THEA 2044 or THEA 3048 or THEA 3049.

Repeatability: May be repeated for a maximum of 6 units.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

THEA 493 - Theatre Projects Capstone

Units: 3

Culminating projects and classroom workshop productions of short plays and new works. Works from various styles and periods. Opportunity to develop a main character, direct, design, or address other compelling issues of performance.

Strongly Recommended Preparation: Complete other Core courses and bulk of one concentration.

Prerequisites: DANC 360 or DANC 362; and DANC 401 or THEA 432; and THEA 151, THEA 461 and THEA 462.

Co-requisites: THEA 381 or THEA 382 or THEA 360.

Equivalent Quarter Course: Either THEA 4038 and THEA 4039; or THEA 4151 and THEA 4152.

Repeatability: May be repeated for a maximum of 6 units.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

Theatre Arts: Theatre

THEA 100 - Theatre: A Spotlight on Life

Units: 3 ; G.E./G.R. Area: C2

Theatre as an art form and cultural influence. Creating theatre through dramatic structure and imagination. The contributions of the playwright, actor, director, and designer. The collaborative nature of theatre.

Equivalent Quarter Course: Any one from: DANC 1200, DANC 1201, DANC 1202, DANC 1203, THEA 1010, THEA 1013, THEA 1016, THEA 1200, THEA 2211.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

G.E./G.R. Area Satisfied: *C2 - Lower Division Humanities*

THEA 101 - Doing The Right Thing: Social Justice Theatre

Units: 3 ; G.E./G.R. Area: C1; Social Justice

The legacy of American social change artists and how ethnic, racial, and gender obstacles helped forge creative expression in theatre and spoken word. Artists as outlaws, rebels, and change makers outside the mainstream.

Equivalent Quarter Course: THEA 1016.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

G.E./G.R. Area Satisfied: *C1 - Lower Division Arts, Overlay - Social Justice*

THEA 102 - Asian American Theatre

Units: 3 ; G.E./G.R. Area: C2

Asian Pacific Island American (APIA) Theatre and an overview of APIA influences on American Theater and pop culture. Students will research, analyze, experiment, rehearse and perform APIA dramatic/comedic work and spoken word from APIA artists.

Equivalent Quarter Course: THEA 2211.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

G.E./G.R. Area Satisfied: *C2 - Lower Division Humanities*

THEA 103 - Ancient Theatre

Units: 3 ; G.E./G.R. Area: C1

Dramatic texts of ancient theatre, especially ancient Greek and Roman periods. Special emphasis on performance space, costumes, and masks. Exercises to reveal how theatre artists analyze literature for presentation.

Equivalent Quarter Course: THEA 1013.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

G.E./G.R. Area Satisfied: *C1 - Lower Division Arts*

THEA 110 - Discover Acting

Units: 3 ; G.E./G.R. Area: C1

Introduction to acting techniques for improving self-expression and observation skills. Introductory acting designed for non-majors. Suitable for those who work with people of all ages in education, recreation, business, and mass communication.

Equivalent Quarter Course: THEA 1020.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

G.E./G.R. Area Satisfied: *C1 - Lower Division Arts*

THEA 111 - Costume Techniques

Units: 1

Basic sewing skills. Process of constructing a costume to clothe a character. Build a complete garment by the end of the semester. Skills and knowledge apply to everyday clothing.

Credit Restrictions: Only one unit applicable to major.

Equivalent Quarter Course: THEA 2422.

Repeatability: May be repeated for credit for a maximum of 4 units.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

THEA 112 - Makeup Techniques

Units: 1

Essential makeup skills. Processes for stage makeup to design a character or enhance features for stage lighting. Skills and knowledge apply to everyday situations.

Credit Restrictions: Only one unit may be applied to the B.A. Theatre Arts major.

Equivalent Quarter Course: THEA 2430.

Repeatability: May be repeated for a maximum of 4 units.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

THEA 113 - Stage Lighting Techniques

Units: 1

Basic techniques of lighting production. Electricity, control systems, fixtures, color media and accessories; fundamentals of lighting design and documentation; experience hanging and focusing stage lights. Guided introduction to ladder, catwalk, and personnel lift safety. Open to non-majors.

Equivalent Quarter Course: THEA 2423.

Repeatability: May be repeated for credit for a maximum of 2 units.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

THEA 114 - Sound Production Techniques

Units: 1

Introduction to sound production and design for performance. Analyzing scripts; gathering pre-recorded sounds from digital, analog, and live sources; recording and editing sound files digitally; formatting for playback in performance; fundamentals of sound reinforcement. Assist setups and observe productions.

Equivalent Quarter Course: THEA 2424 and THEA 2428.

Repeatability: May be repeated for a maximum of 2 units.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

THEA 231 - Creating Theatre from Personal Experience

Units: 3 ; G.E./G.R. Area: C1

Reframing personal experience; confidence to tell your own tale through theatrical exercises, games and improvisation. Devising monologues, scenes, spoken word, and poetry. Developing a portfolio of ideas and outlines for future written and marketable treatments. *Discussion Units: 2; Activity Units: 1*

Equivalent Quarter Course: THEA 2073 or THEA 2074 or THEA 2075.

Repeatability: May be repeated for a maximum of 6 units.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

G.E./G.R. Area Satisfied: *C1 - Lower Division Arts*

THEA 232 - Oral Interpretation of Literature

Units: 3 ; G.E./G.R. Area: C2

The artistic process of studying literature through performance. The critical analysis of texts and guided practice in the effective use of voice and body to communicate the meaning found in poetry, prose, and dramatic texts.

Equivalent Quarter Course: THEA 2310.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

G.E./G.R. Area Satisfied: *C2 - Lower Division Humanities*

THEA 233 - Pilipinix Culture: Theatre Ensemble

Units: 2 ; G.E./G.R. Area: C2; Diversity

Introduction to the theatrical process of culturally specific theatre production. Producing a student-written premiere through auditions, casting, rehearsals, publicity, fundraising, building sets, props, costume, and sound.

Equivalent Quarter Course: Any one from: THEA 2072, THEA 3071, THEA 3072, THEA 3311.

Repeatability: May be repeated for credit for a maximum of 8 units.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

G.E./G.R. Area Satisfied: *C2 - Lower Division Humanities, Overlay - Diversity*

THEA 234 - Social Justice Theatre Ensemble

Units: 2 ; G.E./G.R. Area: C2; Social Justice

Introduction to applied theatre, creations based on contemporary issues or events using scripts, other literature, or original work devised in class. Assignments cover practices that include writing, rehearsal, performance, stage management, sets, costumes, lights, sound, publicity, and stage crew.

Equivalent Quarter Course: Any one from: THEA 1495, THEA 2495, THEA 3495, THEA 4495, THEA 2078, THEA 3078, THEA 3073, THEA 3074, THEA 3075.

Repeatability: Course may be repeated once for a total of 4 units.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

G.E./G.R. Area Satisfied: *C2 - Lower Division Humanities, Overlay - Social Justice*

THEA 241 - America on Stage

Units: 3 ; G.E./G.R. Area: C1

American Theatre from its beginning to the present, including reflection on the values and culture of a changing America portrayed on the stage.

Equivalent Quarter Course: THEA 2225.

Possible Instructional Methods: *Entirely On-ground, Entirely On-line.*

Grading: A-F or CR/NC (student choice).

G.E./G.R. Area Satisfied: *C1 - Lower Division Arts*

THEA 242 - From Stage to Screen: Dramas and the Films They Inspired

Units: 3 ; G.E./G.R. Area: C1

Great works of dramatic literature from classic Greece to modern times compared with films based on them. Exploration of intellectual, social, political and personal issues raised in these works. Stage and film methods compared.

Equivalent Quarter Course: THEA 2212.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

G.E./G.R. Area Satisfied: *C1 - Lower Division Arts*

THEA 243 - What's so Funny? Comedic Genius Since the Sixties

Units: 3 ; G.E./G.R. Area: C1

Comic genius in America since the sixties. Society and pop culture skewered by brilliant, perceptive social commentators. Concerning situations from natural disasters to the confusing world of politics and national policy, we love to laugh, to keep from crying.

Possible Instructional Methods: *Entirely On-ground, Entirely On-line.*

Grading: A-F or CR/NC (student choice).

G.E./G.R. Area Satisfied: *C1 - Lower Division Arts*

THEA 244 - The Genre of Horror

Units: 3 ; G.E./G.R. Area: C2

American Horror and Science Fiction with roots in French Grand Guignol (gory effects) and German Expressionist literature. Landmarks that advanced the stage and film. Iconic films and contemporary theatre spawned by Cold War fears and emerging technology.

Credit Restrictions: Not open for credit to Theatre Arts major.

Equivalent Quarter Course: THEA 3217.

Possible Instructional Methods: *Entirely On-ground, Entirely On-line, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F or CR/NC (student choice).

G.E./G.R. Area Satisfied: C2 - Lower Division Humanities

THEA 245 - Secrets of Backstage Production

Units: 3 ; G.E./G.R. Area: C1

Artistic and production processes of show business. The progression from concept to rehearsal to performance. Creative exercises to explore technology like sets and costumes. How literature or ideas are translated into visual aspects of a show.

Equivalent Quarter Course: THEA 1006.

Possible Instructional Methods: *Entirely On-ground, Entirely On-line, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F or CR/NC (student choice).

G.E./G.R. Area Satisfied: C1 - Lower Division Arts

THEA 246 - Women in Performance

Units: 3 ; G.E./G.R. Area: C1

Roots of roles women artists play in U.S. culture; traditional gender-based performance forms; and, the female body in theatre. Includes some women artists of Europe, Africa, and Pacific Rim who have influenced or been influenced by U.S. culture.

Equivalent Quarter Course: THEA 2226.

Possible Instructional Methods: *Entirely On-ground, Entirely On-line.*

Grading: A-F or CR/NC (student choice).

G.E./G.R. Area Satisfied: C1 - Lower Division Arts

THEA 247 - Culture and Diversity

Units: 3 ; G.E./G.R. Area: C2

Artistic and cultural contributions of Native Americans, African Americans, Latino Americans, Asian Americans and LGBTQ artists to American cultural expression, performance and pop culture. Analysis of the historical and political context behind ethnic expression.

Possible Instructional Methods: *Entirely On-ground, Entirely On-line, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F or CR/NC (student choice).

G.E./G.R. Area Satisfied: C2 - Lower Division Humanities

THEA 254 - Acting and Diversity

Units: 3 ; G.E./G.R. Area: C2; Diversity

Contemporary American theatrical expression and performance. Organized around ethnic and cultural identity. Analyzing samples of Native American, Chicano, African American, Asian American and LGBTQ theatre with consideration for their historical and political contexts. *Discussion Units: 2; Activity*

Units: 1

Equivalent Quarter Course: THEA 2037.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

G.E./G.R. Area Satisfied: *C2 - Lower Division Humanities, Overlay - Diversity*

THEA 260 - Architecture and Costume History

Units: 3 ; G.E./G.R. Area: C2

Overview of architecture and costume history covering mainly Western building and fashion styles from 5000 BCE to the 20th century.

Equivalent Quarter Course: THEA 3422 or THEA 3423 or THEA 3427.

Repeatability: May be repeated for a maximum of 9 units.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

G.E./G.R. Area Satisfied: *C2 - Lower Division Humanities*

THEA 261 - Stage Management

Units: 1

The stage manager as a key player in production. Creating and distributing notes, lists, and schedules; providing rehearsal props and taping a ground plan; running rehearsals and handling personnel issues; maintaining a prompt book; calling cues; leadership an emergency.

Equivalent Quarter Course: THEA 3999.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

THEA 262 - Pencil and Color Sketching

Units: 1

Drawing with an emphasis on costume and scenic sketching: human proportions, fabric interpretation, natural objects, building elements, and perspective.

Credit Restrictions: Only one unit may be applied to the B.A. Theatre Arts major.

Equivalent Quarter Course: Any one from: THEA 2421, THEA 2422, THEA 2423, THEA 2424, THEA 2425, THEA 2428, THEA 2430.

Repeatability: May be repeated for credit for a maximum of 3 units.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

THEA 263 - Wood and Metal Construction

Units: 2

Practical materials and techniques of scenic construction including: lumber, plywood, and metal stocks; hardware and tools; adhesives and fasteners; woodworking and welding. Building methods of the modern scene shop. Practice applicable to everyday handiwork.

Equivalent Quarter Course: THEA 2421 and THEA 2427.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

THEA 264 - Non-Western Costume

Units: 3 ; G.E./G.R. Area: C1

The development of Non-western clothing and costume with a historical context. Influences on world culture and theatrical design of Chinese, Japanese, other Asian, African, indigenous American, and Pacific Islander fashions.

Equivalent Quarter Course: THEA 3423.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

G.E./G.R. Area Satisfied: *C1 - Lower Division Arts*

THEA 265 - Fashion History and Design

Units: 3 ; G.E./G.R. Area: C2

Design and technical practices in fashion from conception to the runway. Developing concepts, color sketching, selecting fabric, and garment construction. How fashion adjusts to global society facing climate change and increasing concern for sustainability. *Lecture Units: 2; Activity Units: 1*

Equivalent Quarter Course: THEA 3428.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

G.E./G.R. Area Satisfied: *C2 - Lower Division Humanities*

THEA 321 - History of Black Theatre

Units: 3 ; G.E./G.R. Area: C4

The influence of 400 years of African Diaspora on North American theatre traditions. The African American influence on playwriting, music, slave narratives, minstrel shows, The Harlem Renaissance, The Civil Rights Movement, The Black Arts Movement, and contemporary African American theatre.

Prerequisites: Completion of GE areas A1, A2, A3 and B4.

Equivalent Quarter Course: THEA 3220.

Possible Instructional Methods: *Entirely On-ground, Entirely On-line.*

Grading: A-F or CR/NC (student choice).

G.E./G.R. Area Satisfied: *C4 - Upper Division Arts or Humanities*

THEA 322 - History of Musical Theatre

Units: 3 ; G.E./G.R. Area: C4

Musical theatre from 1866 to the present; 19th-century minstrel and variety shows; the theatre of social change in the 20's and 30's; and "concept" musicals after 1970. Requires theatre attendance.

Prerequisites: Completion of GE areas A1, A2, A3 and B4.

Equivalent Quarter Course: THEA 3216.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

G.E./G.R. Area Satisfied: *C4 - Upper Division Arts or Humanities*

THEA 323 - Shakespeare on Film

Units: 3 ; G.E./G.R. Area: C4

Modern interpretations of Shakespeare's plays in the film medium. Critical analysis and interrogation of these works as they apply to contemporary socio-cultural concerns.

Prerequisites: Completion of GE areas A1, A2, A3 and B4.

Equivalent Quarter Course: THEA 3230.

Possible Instructional Methods: *Entirely On-ground, Entirely On-line.*

Grading: A-F or CR/NC (student choice).

G.E./G.R. Area Satisfied: *C4 - Upper Division Arts or Humanities*

THEA 331 - Solo and Devised Theatre Ensemble

Units: 2

The magic of creating a performance based on original material devised in class from personal experience, issues research, adaptation, or auto-ethnography. Assignments cover practices that include writing, rehearsal, performance, stage management, sets, costumes, lights, sound, publicity, and stage crew.

Equivalent Quarter Course: Any one from: THEA 2072, THEA 2075, THEA 2078, THEA 3071, THEA 3072, THEA 3075, THEA 3078, THEA 3495, THEA 4495.

Repeatability: May be repeated for credit for a maximum of 8 units.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

THEA 344 - Interpretation of Women's and Ethnic Literature

Units: 3 ; G.E./G.R. Area: C4; Diversity

Research, selection, and analysis of literature contributing to American culture by women and ethnic groups. Reading expressively to convey meaning in presentations.

Prerequisites: Completion of GE areas A1, A2, A3 and B4.

Equivalent Quarter Course: THEA 3310.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

G.E./G.R. Area Satisfied: *C4 - Upper Division Arts or Humanities, Overlay - Diversity*

THEA 345 - How to Watch Plays and Film

Units: 3 ; G.E./G.R. Area: C4

How the audience understands a show. What production elements like acting, scenery, costume, lights, sound, and other physical aspects add to understanding. Identifying a personally satisfying issue and theme. Why performance enhances, supports, and occasionally contradicts the script.

Prerequisites: Completion of GE areas A1, A2, A3 and B4.

Equivalent Quarter Course: THEA 3225.

Possible Instructional Methods: *Entirely On-ground, Entirely On-line, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F or CR/NC (student choice).

G.E./G.R. Area Satisfied: *C4 - Upper Division Arts or Humanities*

THEA 350 - Theatre Performance

Units: 2

Participation in production and performance. Illuminating cultural and human issues. Productions based on established scripts. Requires involvement in production, design, operation, performance, or a combination.

Co-requisites: THEA 381 or THEA 382 (only one per semester).

Credit Restrictions: Requires audition or interview. Contact instructor.

Equivalent Quarter Course: Any one from: THEA 1495, THEA 1499, THEA 2495, THEA 2499, THEA 3495, THEA 3499, THEA 4495, THEA 4499.

Repeatability: May be repeated for credit for a maximum of 6 units.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice). Theatre Arts majors should select A-F grading.

THEA 352 - Acting and Classical Repertoire

Units: 3

Studying plays that define classical theatre periods; how to approach them for acting; differences between period styles. Viewing great performances of period plays, analyzing them, and scene work in a studio environment. *Seminar Units: 2; Activity Units: 1*

Prerequisites: All of: THEA 151, THEA 251, THEA 252.

Equivalent Quarter Course: THEA 3061.

Repeatability: May be repeated for a maximum of 6 units.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

THEA 359 - Directing

Units: 3

Transformation of text to stage images. Signs and symbols of production elements. Scrutinize arts and myth; experiment in deconstruction, collage, and mise en scene; basic directing. *Discussion Units: 2;*

Activity Units: 1

Prerequisites: THEA 151.

Equivalent Quarter Course: THEA 3256.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

THEA 360 - Technology and Design Studio

Units: 1

Production and performance practice to illuminate cultural and human issues. Production based on original material devised in class or scripts. Advanced tech and design assignments settled with design faculty before registering.

Strongly Recommended Preparation: Recommend taken prior to or concurrently: THEA 364, THEA 461, THEA 462.

Prerequisites: All of: THEA 111, THEA 112, THEA 113, THEA 114.

Equivalent Quarter Course: Any one from: THEA 1493, THEA 2493, THEA 3493, THEA 4493.

Repeatability: May be repeated for credit for a maximum of 6 units.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

THEA 361 - Scene Painting

Units: 2

Painting and rendering in small scale (studio) and full scale (scenery). Projects aimed at developing both drawing and painting skills for performing arts. Fundamentals of paint and color theory; typical application techniques; recipes for common 2D and 3D textures.

Credit Restrictions: Only 2 units may be applied to the B.A. Theatre Arts major.

Equivalent Quarter Course: THEA 3424.

Repeatability: May be repeated for a maximum of 4 units.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

THEA 362 - Computer Aided Design and Model Making

Units: 2

Through a combination of tutorials, lecture and group discussion, students learn the basics of 3D computer modelling including SketchUP and Vectorworks, the leading CAD software for the entertainment/design industry. Finally, the development of plans, elevations and 3D rendering is complimented by the construction of physical scale white and full color models.

Equivalent Quarter Course: THEA 2450.

Repeatability: May be repeated for a maximum of 4 units.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

THEA 363 - Advanced Costume Construction

Units: 2

Advanced sewing skills that will help in costume construction. Builds on basic hand and machine sewing skills and results in a complete garment by the end of the term.

Prerequisites: THEA 111.

Credit Restrictions: Only one unit may be applied to the B.A. Theatre Arts major.

Repeatability: May be repeated for credit for a maximum of 4 units.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

THEA 365 - Masks and Specialized Makeup

Units: 2

Mask-making and specialized study of makeup for the theatre. Special makeup effects and mask-making, including construction and application techniques.

Credit Restrictions: Only one unit applicable to major.

Repeatability: May be repeated for credit for a maximum of 4 units.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

THEA 370 - Musical Theater Performance

Units: 2

Rehearsal and performance to illuminate cultural and human issues in a large ensemble musical; original or established material. Characterization based on singing, dance, and acting techniques; working as an ensemble; and, heightened lyricism. Also for production staff responsible to director.

Co-requisites: THEA 381 or THEA 382.

Equivalent Quarter Course: Any one from: THEA 1491, THEA 2491, THEA 3491, THEA 4491.

Repeatability: May be repeated for credit for a maximum of 8 units.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

THEA 380 - Festival and Touring Participation

Units: 2

Selection, preparation, rehearsal, and performance of monologues, scenes, presentations or productions for festivals or off campus venues. Audition or invitation required.

Equivalent Quarter Course: Any one from: THEA 1494, THEA 2494, THEA 3494, THEA 4494.

Repeatability: May be repeated for credit for a maximum of 8 units.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

THEA 381 - Production Support: Stage, Lights and Sound Shop or Crew

Units: 2

Practical experience building or operating a show. Assignments for scenery, lights, sound, props, effects, makeup, or costumes. Weekday building assignments OR nights & weekend crew assignments. Crew includes all rehearsals, performances, and show strike for at least one show.

Equivalent Quarter Course: Any one from: THEA 3490, THEA 3491, THEA 3492, THEA 3493, THEA 3495, THEA 3499, THEA 4490, THEA 4491, THEA 4492, THEA 4493, THEA 4495, THEA 4499.

Repeatability: May be repeated for credit for a maximum of 8 units.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

THEA 382 - Production Support: Costume and Makeup Shop or Crew

Units: 2

Practical experience building or operating a show. Assignments for costume or makeup. Weekday building assignments OR nights & weekend crew assignments. Crew includes all rehearsals, performances, and show strike for at least one show.

Equivalent Quarter Course: Any one from: THEA 1490, THEA 1492, THEA 2490, THEA 2492, THEA 3490, THEA 3492, THEA 4490, THEA 4492.

Repeatability: May be repeated for credit for a maximum of 8 units.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

THEA 398 - Internship

Units: 1-3

Introduction to the internship experience; integration of the academic program with career aspirations; emphasis on internship readiness and preparation for professional success.

Prerequisites: Department consent and minimum 2.0 GPA.

Credit Restrictions: No more than 3 units may be applied to the Theatre Arts major; no more than 3 units may be applied to the Theatre minor.

Equivalent Quarter Course: THEA 3898.

Repeatability: May be repeated with department consent for a maximum of 6 units.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

THEA 431 - Exploration of Dramatic Literature Characters

Units: 3 ; G.E./G.R. Area: C4

Character in drama throughout the ages. How major and minor characters are formed on the page to communicate a message. How the actor and director bring the written character to life on stage.

Strongly Recommended Preparation: Upper division standing. Completion of GE Areas A1, A2 and A3.

Prerequisites: Department consent and completion of GE areas A1, A2, A3 and B4.

Equivalent Quarter Course: Any one from: THEA 3201, THEA 3202, THEA 3203, THEA 3207, THEA 3254.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

G.E./G.R. Area Satisfied: *C4 - Upper Division Arts or Humanities*

THEA 432 - Exploration of Dramatic Literature Themes

Units: 3 ; G.E./G.R. Area: C4

An exploration of the universal, societal, and individual controversies addressed in plays throughout the ages.

Strongly Recommended Preparation: Junior or Senior standing.

Prerequisites: Completion of GE areas A1, A2, A3 and B4.

Equivalent Quarter Course: Any one from: THEA 3201, THEA 3202, THEA 3203, THEA 3207, THEA 3253.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

G.E./G.R. Area Satisfied: *C4 - Upper Division Arts or Humanities*

THEA 461 - Scenery, Lighting and Sound Design

Units: 3

History and practice of sceneography: the creation of live performance environments. Set design for contemporary plays; theory and practice of lighting and sound design; projection development; drafting in scale; building techniques; safety protocols; light console programming; sound editing. Seminar Units: 1; Activity Units: 2

Strongly Recommended Preparation: Previous courses in stage shop or crew.

Prerequisites: All of: THEA 111, THEA 113, THEA 114.

Equivalent Quarter Course: THEA 3254.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

THEA 462 - Costume and Makeup Design

Units: 3

Techniques, theory and practice of costume and makeup design for the performing arts; design, clothing construction, research methods, rendering techniques, makeup theory, and practical projects. *Seminar*

Units: 1; Activity Units: 2

Equivalent Quarter Course: THEA 3255.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F grading only.

THEA 490 - Independent Study

Units: 1-4

Independent study under the supervision a department faculty member.

Prerequisites: Department consent and minimum 2.0 GPA.

Credit Restrictions: No more than 12 units of independent study may be applied in the major department and 8 units in other departments to a baccalaureate degree.

Equivalent Quarter Course: THEA 4900.

Repeatability: May be repeated for credit, with department consent, for a total of 12 units.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

THEA 497 - Issues in Dramatic Literature

Units: 3

An exploration of the universal, societal and individual issues addressed in plays throughout the ages.

Strongly Recommended Preparation: Upper Division standing.

Prerequisites: Completion of GE Areas A1, A2 and A3.

Equivalent Quarter Course: Any one from: THEA 3201, THEA 3202, THEA 3203, THEA 3207, THEA 3254.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

Women's Studies

WOST 101 - Perspectives on Women

Units: 3

The observed similarities and differences in the behavior of women and men as seen from the perspective of art, history, literature, philosophy, biology, and psychology. How these differences came about and what the future may hold.

Equivalent Quarter Course: WOST 1001.

Possible Instructional Methods: *Entirely On-ground, Entirely On-line, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F or CR/NC (student choice).

WOST 102 - Introduction to Feminist, Gender, and Sexuality Studies

Units: 3 ; G.E./G.R. Area: Diversity

Power hierarchies that structure gender and sexuality. Investigates how gender intersects with race, ethnicity, class, sexuality, age, religion, relevant debates, beliefs, practices, and political struggles.

Equivalent Quarter Course: WOST 1100.

Possible Instructional Methods: *Entirely On-ground, Entirely On-line, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F or CR/NC (student choice).

G.E./G.R. Area Satisfied: *Overlay - Diversity*

WOST 301 - Women and Work

Units: 3 ; G.E./G.R. Area: Diversity

A feminist intersectional analysis of earnings and employment differentials. Covered topics may include work/family balance, labor policy, sexual harassment, occupational micro-enterprises, colonial legacies, and transitional economies.

Prerequisites: Junior, senior or post-baccalaureate standing.

Equivalent Quarter Course: WOST 3400 or WOST 3550 or WOST 3600

Possible Instructional Methods: *Entirely On-ground, Entirely On-line, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F or CR/NC (student choice).

G.E./G.R. Area Satisfied: *Overlay - Diversity*

WOST 302 - Women and Families

Units: 3 ; G.E./G.R. Area: Diversity

Gender and unpaid family care-work. Covered topics may include family formation and dissolution, parent-child relations, interaction and power, the diversity of families, heteronormativity, domestic violence, reproductive rights, and family policy.

Prerequisites: Junior, senior or post-baccalaureate standing.

Equivalent Quarter Course: WOST 3550 (WOST 3550 is equivalent to both WOST 301 & 302 when both

taken and passed).

Possible Instructional Methods: *Entirely On-ground, Entirely On-line, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F or CR/NC (student choice).

G.E./G.R. Area Satisfied: *Overlay - Diversity*

WOST 303 - Violence Against Women

Units: 3 ; G.E./G.R. Area: Diversity

Violence in intimate relationships from a feminist perspective. Violence against women and girls as instituting structured gender inequality and as perpetrated by political, social and economic institutions locally, nationally, and internationally.

Prerequisites: Junior, senior or post-baccalaureate standing.

Equivalent Quarter Course: WOST 3900.

Possible Instructional Methods: *Entirely On-ground, Entirely On-line, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F or CR/NC (student choice).

G.E./G.R. Area Satisfied: *Overlay - Diversity*

WOST 401 - Feminist Theory

Units: 4 ; G.E./G.R. Area: Diversity

Feminist theories of American women's liberation movement from mid-sixties to present. Gender identity; "nature vs. nurture" theories of female subservience and male domination; pornography; rape; class, race, and gender.

Prerequisites: Junior, senior or post-baccalaureate standing.

Equivalent Quarter Course: WOST 3050.

Possible Instructional Methods: *Entirely On-ground, Entirely On-line, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F or CR/NC (student choice).

G.E./G.R. Area Satisfied: *Overlay - Diversity*

WOST 402 - Women's Bodies and Health

Units: 3 ; G.E./G.R. Area: Diversity

Interdisciplinary course focusing on women's body and health experiences, with foci on sexuality, appearance, body control, reproduction, and health/illness. Social, political, and economic perspectives on current health status and health needs of women in the United States.

Prerequisites: Junior, senior or post-baccalaureate standing.

Equivalent Quarter Course: WOST 3530 or WOST 3545.

Possible Instructional Methods: *Entirely On-ground, Entirely On-line, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F or CR/NC (student choice).

G.E./G.R. Area Satisfied: *Overlay - Diversity*

WOST 403 - Comparative Perspectives on Global Feminism

Units: 3 ; G.E./G.R. Area: Social Justice

Women globally in transnational and local contexts; issues of economic and social justice. Including violence against women and children, poverty, migration, political fundamentalism, globalization of capitalist economy, sexual and civil rights, immigration and citizenship, and sex trafficking.

Prerequisites: Junior, senior or post-baccalaureate standing.

Equivalent Quarter Course: WOST 3700.

Possible Instructional Methods: *Entirely On-ground, Entirely On-line, Hybrid (every section of this course may be taught both online and on-ground).*

Grading: A-F or CR/NC (student choice).

G.E./G.R. Area Satisfied: *Overlay - Social Justice*

WOST 490 - Independent Study

Units: 1-4

Independent study under the supervision a department faculty member.

Prerequisites: Department consent and minimum 2.0 GPA.

Credit Restrictions: No more than 12 units of independent study may be applied in the major department and 8 units in other departments to a baccalaureate degree.

Equivalent Quarter Course: WOST 4900.

Repeatability: May be repeated for credit, with department consent, for a total of 12 units.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

WOST 497 - Issues in Women's Studies

Units: 3

Readings, discussion, and research on contemporary and/or significant issues in women's studies.

Equivalent Quarter Course: WOST 3999.

Repeatability: May be repeated for credit when content varies, for a maximum of 6 units.

Possible Instructional Methods: *Entirely On-ground.*

Grading: A-F or CR/NC (student choice).

Undergraduate Application & Admissions

General Application Information

- Application Process
- The Office of Admission
- Application Filing Periods & Deadlines
- Undergraduate Application Procedures
- CSU Disclaimer
- Importance of Filing Application Documents
- Use of Social Security Number
- Hardship Petitions
- Impacted Programs
- Re-Routing an Application to Another CSU

General Admission

- Evaluation of Admission Eligibility
- Application Denial & Appeal
- Determination of Residency for Tuition Purposes
- California Resident Freshmen Early Start Program
- Educational Opportunity Program (EOP) & Summer Bridge
- Declaration of Major Objective
- Returning Students
- Students Ages 25 Years or Older
- Programs Leading to Licensure & Credentialing
- Credit for Military Training and USAFI
- Credit for AP & IB Tests
- Credit for Experience & Prior Learning

First-time Freshmen Admission

- Admission Requirements for First-time Freshmen
- Assessment of Academic Preparation & Placement
- Conditional Admission of First-time Freshmen
- International Students as First-time Freshmen

Transfer Student Admission

- Transfer Requirements
- Conditional Admission of Transfer Students
- Transfer Policies of CSU Campuses
- California Community Colleges GE Certification

- Transfer Credit Information
- Credit for Accredited Community College Courses
- Credit for Other Collegiate Work
- Credit for Continuing Education & Correspondence School Work
- Transfer Student Provisions
- Transfer of University-level Work from Outside the U.S.

International Admission

- Center for International Education
- International Admissions Office
- F1 & J1 Visa Students
- International (Foreign) Student Admission Requirements
- General Requirements of All International Applicants
- Application Filing Periods & Deadlines for International Students
- International Students as First-time Freshmen
- Transferable Units through the CSU International Program
- English Language Requirements
- Academic Records of International Students
- Financial Certification
- California Dream Act

Cal State East Bay welcomes students to apply to study at our University.

There are four steps to the application process for most prospective students:

1. Applicants must submit an online CSU application for admission at *CALSTATE Apply*
2. Applicants must submit all supplementary documents required such as transcripts and standardized test scores.
3. Cal State East Bay will determine an applicant's eligibility based on criteria discussed in this chapter.
4. The University will notify the student of the decision.

The following categories must complete an **undergraduate** admission application:

- High school graduates;
- Community college transfer students;
- Students who have been enrolled in Continuing Education Special Sessions Programs and Open University;
- Cal State East Bay students who have not been enrolled for two consecutive semesters;
- Students who have attended Cal State East Bay as visiting students from another university;
- Students who were previously admitted to Cal State East Bay for a particular term but did not enroll.

Students who are uncertain whether they are required to apply may contact the Office of Admission at (510) 885-3500.

The Office of Admission

The Office of Admission is responsible for all domestic admission services for new students. International students on F or J visas (and applicants with transcripts issued by schools outside the United States) are served by the International Admissions Office.

All applicants should use the student online self-service portal *MyCSUEB* at <https://my.csueastbay.edu> to check admission status and required documents.

Undergraduate Application Filing Periods & Deadlines

Application filing periods are also listed at www.csueastbay.edu/prospective/how-to-apply/application-and-document-deadlines

UNDERGRADUATE APPLICATION FILING PERIODS

(Not all campuses/programs are open for admission to every term)			
Terms	Applications First Accepted	Initial Filing Period	Filing Period Duration
Fall Semester	October 1	October 1 - November 30	Each non-impacted campus accepts applications until capacities are reached. Many campuses limit undergraduate admission in an enrollment category due to overall enrollment limits. If applying after the initial filing period, consult the campus admission office for current information.
Spring Semester	August 1	August 1-31	
Summer	February 1	February 1-28	
(Most campuses do not admit students to summer term.)			
<i>Note: Application deadlines are the dates by which applicants must submit their application to CALSTATE Apply. Published deadlines are subject to change. Apply early since enrollment may be limited for some programs. The application filing periods are listed on the Application and Document Deadlines page at www.csueastbay.edu/deadlines.</i>			

On-time applicants may expect to receive an acknowledgment from the campuses to which they have applied within two to four weeks of filing the application. The notice may also include a request that applicants submit additional records necessary to evaluate academic qualifications. Applicants may be assured of admission if the evaluation of relevant qualifications indicates that applicants meet CSU admission requirements, and in the case of admission impaction, supplemental criteria for admission to an

impacted program. Unless specific written approval/confirmation is received, an offer of admission is not transferable to another term or to another campus.

Prospective Cal State East Bay Students

Be sure to review the deadlines for:

- Freshman students
- Transfer students
- Graduate and Credential students
- International students
- University Extension students

Some academic and support service programs have supplemental application forms with specific deadlines. Check with the department for complete details.

- Educational Opportunity Program (EOP)
- Nursing B.S.
- Music B.A.

Application Procedures for Undergraduate Admissions

Note: The following are subject to change without prior notice if necessary so that University policies are consistent with those established by the Trustees of The California State University.

Prospective students applying for part-time or full-time undergraduate programs of study must submit a completed undergraduate application. The \$55 nonrefundable application fee should be paid online at the time of application via credit card, e-check, or PayPal and may not be transferred or used to apply to another term. An alternate major may be requested on the application if desired from the campus. The applications of persons denied admission to an impacted campus may be redirected to another campus at no cost, but only if the applicant is CSU eligible.

Requirements for admission to Cal State East Bay are in accordance with Title 5, Chapter 1, Subchapter 3, of the California Code of Regulations. Complete information is available at: www.calstate.edu/apply.

An applicant must complete all required information, including the Social Security number. (The University uses this number to accurately identify student records and evaluate financial aid applications.) Be certain to accurately enter the requested academic information. Any misrepresentation could result in an offer of admission being rescinded. Applicants must submit all required items indicated on the student's *MyCSUEB* To Do list at <https://my.csueastbay.edu> by the deadline provided.

Program-Specific Admissions Information

- Applicants who want to pursue a major in nursing should see the Nursing, B.S.: Pre-Licensure Concentration program for special admission requirements.
- The bachelor's degree major in Music requires students audition in order to determine admission. Student who want to pursue a major in Music should see the Music, B.A. program for special admissions requirement.

Note: It is important for students to take time to read this catalog and become familiar with the specific policies and procedures of Cal State East Bay and the CSU system. This will help the student to understand their rights and responsibilities, as well as the rights and responsibilities of the University.

CSU Rights Reserved

Cal State East Bay reserves the right to select its students and to deny admission to the University, or to any of its programs, based upon its determination, at its sole discretion, of an applicant's suitability and the best interests of the University.

Importance of Filing Complete, Accurate, and Authentic Application Documents

Cal State East Bay advises prospective students that they must supply complete and accurate information on the application for admission, residency questionnaire, and financial aid forms. Further, applicants must, *when requested*, submit authentic and official transcripts of all previous academic work attempted. Failure to file complete, accurate, and authentic application documents may result in denial of admission, cancellation of registration or academic credit, suspension, or expulsion (Section 41301, Article 1.1, Title 5, California Code of Regulations).

Use of Social Security Number

Applicants are required to include their correct Social Security numbers in designated places on applications for admission pursuant to the authority contained in Section 41201, Title 5, California Code of Regulations, and Section 6109 of the Internal Revenue Code (26 U.S.C. 6109). The University uses the Social Security number to identify students and their records including identification for purposes of financial aid eligibility and disbursement and the repayment of financial aid and other debts payable to the institution. Also, the Internal Revenue Service (IRS) requires the University to file information returns that include the student's Social Security number and other information such as the amount paid for qualified tuition, related expenses, and interest on educational loans. This information is used by the IRS to help determine whether a student, or a person claiming a student as a dependent, may take a credit or deduction to reduce federal income taxes.

If the student is a taxpayer who claims Hope Scholarship or Lifetime Learning tax credit, the student is required to provide Cal State East Bay with their name, address, and Taxpayer Identification Number.

Hardship Petitions

The campus has established procedures for consideration of qualified applicants who would be faced with extreme hardship if not admitted. Petitioners should submit an appeal form at <http://www.csueastbay.edu/admissions/admission-appeals/admission-appeals.html>. For more information contact the Office of Admission at (510) 885-3500 or admissionpetitions@csueastbay.edu

Impacted Programs

The CSU designates programs as impacted when more applications from regularly eligible applicants are received in the initial filing period (October and November for fall terms, June for winter terms, August for spring terms, February for summer terms) than can be accommodated. Some programs are impacted at every campus which they are offered; others are impacted only at a few campuses. Candidates for admission must meet all of the campus' specified supplementary admission criteria if applying to an impacted program or campus.

The CSU will announce during the fall filing period those campuses or programs that are impacted. Detailed information on campus and program impactation will be available at: www2.calstate.edu/attend/impaction-at-the-csu.

Campuses will communicate supplementary admission criteria for all impacted programs to high schools and community colleges in their application service area and will disseminate this information to the public through appropriate media. This information will also be published on the CSU campus website and made available at www.calstate.edu.

Applicants must file applications for admission to an impacted program during the initial filing period. Applicants who wish to be considered for impacted programs at more than one campus should file an application at each campus for which they seek admission consideration.

Supplementary Admission Criteria

Each campus with impacted programs or class-level admission categories uses supplementary admission criteria in screening applicants. Supplementary criteria may include rank-ordering of freshman applicants based on the CSU eligibility index or rank-ordering of transfer applicants based on verification of the Associate in Arts for Transfer (AA-T) or Associate in Science Transfer (AS-T) degrees, the overall transfer grade point average (GPA), completion of specified prerequisite courses and a combination of campus-developed criteria. Applicants for freshman admission to impacted campuses or programs are required to submit scores on either the SAT or the ACT, regardless of GPA. For fall admission, applicants should take tests as early as possible, but no later than November or December of the preceding year.

The supplementary admission criteria used by individual campuses to screen applicants are made available by the campuses to all applicants seeking admission to an impacted program.

Cal State East Bay Campus Impaction

Cal State East Bay is considered impacted, effective Fall Semester, 2018. Applicants who live in the CSUEB service area (Alameda, Contra Costa, San Francisco, San Mateo, Santa Clara, and Solano counties) only need to be academically qualified, as noted in the Eligibility Index (see below). Similarly, transfer applicants with a designated ADT in a similar major as their declared major at CSUEB are also guaranteed admission, regardless of county of residence in California, provided that they meet the eligibility requirements. For freshman applicants outside Cal State East Bay's service area, higher Eligibility Index scores will be required. The minimum score will depend on the number of qualified applications and the campus enrollment limits. For transfer applicants who do not have a designated ADT and are outside the service area, determinations will be based on grade point averages. Cal State East Bay's goals are to ensure that its students have the courses and resources they need to successfully

complete their degree programs. Depending on capacity, the University may need to restrict, as minimally as possible, admissions from outside its six-county service area.

Re-Routing an Application to Another CSU

If for some reason an applicant with an Associate Degree for Transfer cannot be accommodated at Cal State East Bay, their application will be redirected for the same term to a non-impacted CSU campus, provided that the student meets the minimum CSU admissions requirement.

The Center for International Education

International Students should contact the Center for International Education (cie@csueastbay.edu) for information on matters affecting visa status, eligibility for employment, and any special academic requirements for international students.

Also see: International Education & Student Exchange Programs for more information.

International Admission Office

All matters pertaining to the admission of international students are handled by the International Admissions Office. Students from other countries should consult with the International Admissions Office regarding visas, eligibility for employment, and any special academic requirements.

The CSU must assess the academic preparation of international students. For this purpose, "international students" include those who hold U.S. temporary visas as students, exchange visitors, or in other non-immigrant classifications. Cal State East Bay uses separate requirements and application filing dates in the admission of "foreign students". Verification of English proficiency (see below), financial resources, and academic performance are each important considerations for admission.

Prospective Graduate Students

Graduate applicants must hold a degree equivalent to a four-year bachelor's degree obtained from a recognized university. Applicants must also have the equivalent of a 2.50 grade point average, or higher, in their last two years of college-level courses.

F-1 and J-1 Visa Students

When admitted to Cal State East Bay, international students are expected to comply with all regulations of the U.S. Citizenship and Immigration Services pertaining to international students as well as those of the university.

F-1 and J-1 international students should contact the Center for International Education (cie@csueastbay.edu) for information on matters affecting visa status, eligibility for employment, and any special academic requirements for international students.

International (Foreign) Student Admission Requirements

General Requirements for All International Applicants

The CSU and Cal State East Bay must assess the academic preparation of international students. For this purpose, "international students" include those who hold U.S. visas as students, exchange visitors, or in other nonimmigrant classifications.

The CSU uses separate requirements and application filing dates in the admission of "international students." Verification of English proficiency (see the section on the English Language Requirement for undergraduate applicants), financial resources, and academic performance are each important considerations for admission. Each applicant must have a declared educational objective (major) when the application is filed. Academic records from foreign institutions must be on file before the start of the semester of admission and, if not in English, must be accompanied by certified English translations.

Priority in admission is given to residents of California for majors that are impacted or for programs with limited openings.

Graduate & Post-Baccalaureate Applicants

Graduate applicants must hold a degree equivalent to a four-year bachelor's degree obtained from a recognized university. Applicants must also have the equivalent of a 2.50 grade point average, or higher, in their last two years of college-level courses.

In addition, each applicant must have a declared educational objective when the application is filed. International students on F-1 student visas may be admitted as "Conditionally Classified Graduate," "Classified Graduate," or "Classified Post-Baccalaureate" students. They may not be admitted as "Unclassified Post-Baccalaureate" students.

Note: Some graduate programs may require admission tests such as the GMAT or GRE and a supplemental application. Please consult the individual graduate department for any additional application or admission requirements.

International Admission Requirements

General Requirements for All International Applicants

Cal State East Bay must assess the academic preparation of international students. For this purpose, "international students" include those who hold U.S. visas as students, exchange visitors, or in other nonimmigrant classifications. California residents and U.S. citizens with international transcripts are also classified as "international students" for admission evaluation purposes. However, most students who graduated from a California high school are evaluated like residents, see "Dream Act" section below.

There are separate requirements for the admission of international students. Verification of English proficiency, financial resources, and academic performance are all important considerations for admission. Each applicant must have a declared educational objective (major) when the application is filed.

Priority in admission is given to residents of California for majors that are impacted or for programs with limited openings.

Application Filing Periods & Deadlines for International Students

The University has established deadlines to ensure that all application materials will be processed in time to allow international students to make the necessary passport, visa, travel, and other arrangements to reach the campus before the start of the semester of admission. Current deadlines applicable to international student admission can be found on the University website or by contacting the International Admissions Office: iao@csueastbay.edu.

International Students as First-time Freshmen

Prospective students who received their preparatory education outside the U.S. must have completed the equivalent of 12 years of elementary and secondary schooling with the equivalent of a "B" average or higher. ACT or SAT test scores are not required of international students who completed their secondary schooling outside the U.S.

International students who graduated from a U.S. high school must meet the same requirements as U.S. citizens.

English Language Requirement

All undergraduate, post-baccalaureate and graduate applicants whose native language is not English, and who have not attended schools at the secondary level or above for at least three years full time where English is the principal language of instruction, must demonstrate proof of English proficiency.

CSU minimum TOEFL standards are:

- Undergraduate: 61 - INTERNET, 500- PAPER
- Graduate: 80 - INTERNET, 550 - PAPER

Cal State East Bay standards for Undergraduate Students are:

- TOEFL (Test of English as a Foreign Language) score of 525 (or 197 computer-based or 61 Internet-based) or above.
- An overall IELTS (International English Language Testing System) score of 6.0 or above.
- Transferred from a U.S. college with 60 or more semester units with a minimum grade point average of 2.4, and have completed a transfer course in each of the following general education areas with a grade of 2.0 or better: English composition, speech, critical thinking, and mathematics.

Cal State East Bay standards for Graduate Students are:

- An official transcript showing graduation with a bachelor's degree from a U.S. college or university, or an international college or university where English is the principal language of instruction, or an official letter from the college or university certifying that English was the language of instruction.
- A TOEFL (Test of English as a Foreign Language) score of 550 (213 computer-based or 79 Internet-based; 92 for Master's of Science degree in Economics) or above.
- An overall test score from IELTS (International English Language Testing System) exam of 6.5 or above for graduate students. A score of 7 or above is required for international students seeking a Master's of Science degree in Economics.

Some majors may require a higher score.

Note: All test scores must be sent directly from the testing institution. Cal State East Bay's International Admission Office contacts are located at: <http://www.csueastbay.edu/prospective/how-to-apply/international-student-admission>.

Academic Records of International Students

Certificates, diplomas, mark sheets, transcripts, and test scores *must be sent directly from the issuing institution* to the International Admissions Office to be considered official. The International Admissions Office reserves the right to determine what constitutes an official document. Certified English translations must accompany all non-English original documents. Documents submitted are the property of Cal State East Bay and will not be returned.

Financial Certification Prior to Admission

Prospective International Students

International students who wish to apply for a student visa must demonstrate financial support before a letter of admission or an "I-20" or "DS-2019" form will be issued. The following forms must be submitted:

1. I-20 Letter of Consent,
2. Declaration of Finances, and
3. Health Insurance Compliance.

These forms can be downloaded from the international students admissions page.

California Dream Act

California Dream Act and Application/AB540

The California Dream Act of 2011 allows students who meet AB540 criteria to apply for and receive certain state and institutional financial assistance programs.

AB540 Requirements

To be eligible, a student must meet all of the following requirements:

- The student must have attended a high school (public or private) in California for three or more years AND
- The student must have graduated from a California high school or attained the equivalent prior to the start of the term. For example: the student must have passed the General Education Diploma (GED) or California High School Proficiency exam) AND
- A student who is without lawful immigration status must file an AB540 Affidavit (California Non-Resident Tuition Exemption Request form) with the university stating that he or she has filed an application to legalize his or her immigration status, or will file an application as soon as he or she is eligible to do so. Complete and submit the affidavit to the Office of Admission.

Submit a Dream Application

To apply for the programs available under AB131 you will use the Dream Application. The Dream Application will collect basic personal and income information to determine student eligibility for funding under AB131.

Students will need to complete the Dream Application every year to determine continuing eligibility for state and institutional aid. Students should complete and submit to Cal State East Bay the AB540 Affidavit (California Non-Resident Tuition Exemption Request form) in order to begin a review of your eligibility.

For more information about AB540, visit then AB540 Program website.

Admission Requirements for First-Time Freshmen

Generally, applicants will qualify for consideration for first-time freshman admission if they meet the following requirements:

1. Have graduated from high school, have earned a Certificate of General Education Development (GED) or have passed the California High School Proficiency Examination (CHSPE);
2. Have a qualifiable minimum eligibility index (see "Eligibility Index"); and
3. Have completed, with grades of C- or better, each of the courses in the comprehensive pattern of college preparatory subject requirements also known as the "a-g" pattern (see "Subject Requirements").

Eligibility Index

The eligibility index is the combination of the high school GPA and scores on either the ACT or the SAT. GPA is based on grades earned in courses taken during the final three years of high school. Included in calculation of GPA are grades earned in all college preparatory "a-g" subject requirements and bonus points for approved honors courses. Up to eight semesters of honors courses taken in the last three years of high school, including up to two approved courses taken in the tenth grade can be accepted. Each unit of A in an honors course will receive a total of 5 points; B, 4 points; and C, 3 points.

A CSU eligibility index can be calculated by multiplying a GPA by 800 and adding the total score on the SAT exam (mathematics and critical reading on the old SAT or mathematics and Evidence-Based

Reading and Writing on the new SAT). For students who took the ACT, multiply the GPA by 200 and add 10 times the ACT composite score. Persons who are California high school graduates (or residents of California for tuition purposes) need a minimum index of 2900 using the old SAT, or 2950 using the new SAT or 694 using the ACT. The Eligibility Index Table illustrates several combinations of required test scores and averages. The university has no current plans to include the writing scores from either of the admission tests in the computation of the CSU eligibility index.

Persons who neither graduated from a California high school nor are a resident of California for tuition purposes need a minimum index of 3502 using the old SAT, 3570 using the new SAT or 842 using the ACT. Graduates of secondary schools in foreign countries must be judged to have academic preparation and abilities equivalent to applicants eligible under this section. Impacted CSU campuses, including Cal State East Bay, require SAT or ACT scores of all applicants for freshman admission. Campuses use these test results for advising and placement purposes and may require them for admission to impacted majors or programs.

2018-2019 ACT & SAT Eligibility Index Tables

Returning Students

Undergraduate Cal State East Bay students who are seeking a first Bachelor's degree and who do not enroll in classes for two or more consecutive semesters must reapply for admission to the University. Students in this situation are considered to be returning students.

Returning students in good standing may reapply to Cal State East Bay. Students who were previously academically disqualified should first set up an appointment with a readmission counselor by e-mailing readmission@csueastbay.edu. Students who were previously administratively disqualified should first consult a counselor in the General Education office, which can also be found in the Student Services and Administration Building on the Hayward Campus.

How to Apply

To apply, submit an online application via **Cal State Apply** and select Undergraduate Admission Application. Applications are accepted during the transfer applicant filing periods.

Applicants will be notified by mail upon receipt of the updated application. Applicants do not need to send in official transcripts unless they have attended a college or university since their last enrollment at Cal State East Bay.

This policy does not apply toward admission for a second bachelor's degree.

Assessment of Academic Preparation and Placement

The CSU requires that all entering freshmen students be evaluated in terms of their preparation to complete first-year courses in written communication and mathematics/quantitative reasoning. This evaluation will utilize the broadest set of multiple measures including high school grades as well as performance scores on standardized exams such as the ACT or SAT. This evaluation of academic

readiness is not a condition for admission to the CSU, but it is an important step for determining the best course placement for entering students.

Successful completion of general education (GE) written communication and mathematics/quantitative reasoning courses in the first year of CSU enrollment establishes a foundation for continuous learning. Unless the requirements have been completed, freshmen shall enroll in GE written communication and mathematics/quantitative reasoning courses appropriate to each student's major and skill level, as demonstrated by applicable systemwide standards utilized in the review of academic preparation.

Students whose skill assessments indicate academic support will be needed for successful completion of GE in written communication or mathematics/quantitative courses shall enroll in appropriate college-level, baccalaureate credit-bearing courses that strengthen skills development to facilitate achieving the appropriate general education student learning outcomes. Supportive course models may include, among others, co-requisite approaches, supplemental instruction or "stretch" formats that extend a course beyond one academic term. In these approaches, instructional content considered pre-baccalaureate may carry a maximum of one unit and shall be offered concurrently with a college-level, baccalaureate credit-bearing course.

Multiple Measures Assessment for General Education Written Communication

Based on the systemwide assessment standards for GE written communication below, freshmen shall enroll in appropriate GE written communication courses during their first academic year unless the requirement has been fulfilled.

- Students who have met the following requirements have **fulfilled the GE Written Communication requirement** in preparation for advanced courses:
 - A score of 3 or above on either the Language and Composition examination or the Composition and Literature examination of the College Board Scholastic Advanced Placement Program
 - Completion and transfer to the CSU of the credits for a college course that satisfies the CSU GE requirement in written composition, provided such a course was completed with a grade of C- or better
- Students who have met the following requirements are **ready to enroll in a course that meets the GE Written Communication requirement**:
 - A result of 'Standard Exceeded: Ready for CSU or participating CCC college-level coursework in English' earned on the CAASPP Early Assessment Program (EAP) exam
 - A score of 550 or higher on the Evidence Based Reading and Writing section of the new SAT Reasoning Test sponsored by the College Board
 - A score of 500 or higher on the Evidence Based Reading and Writing section of the old SAT Reasoning Test sponsored by the College Board
 - A score of 22 or above on the ACT English test
 - Completion of an approved 12th grade, year-long, English course with a grade of C- or better AND a score of 510 - 540 on the Evidence Based Reading and Writing section of the new SAT Reasoning Test or a score of 460-490 on the Evidence Based Reading and Writing section of the old SAT Reasoning Test

- Completion of an approved 12th grade, year-long, English course with a grade of C- or better AND a score of 19-21 on the Act English test
- A result of 'Standard Met: Conditionally Ready for CSU or participating CCC college-level coursework in English' on the CAASPP Early Assessment Program (EAP) exam AND completion of an approved 12th grade, year-long, English course with a grade of C- or better
- Achievement of a weighted high school GPA ≥ 3.3 OR a high school GPA ≥ 3.0 and completion of an approved 12th grade, year-long, English course (AP, IB, ERWC) or Honors English or more than 5 years of high school English
- Students who have met the following requirements are *ready to enroll in a course that meets the GE Written Communication requirement and includes supported instruction*:
 - Completion of 4+ years of standard college preparatory high school English courses AND a score of 510-540 on the Evidence Based Reading and Writing section of the new SAT Reasoning Test or a score of 460-490 on the Evidence Based Reading and Writing section of the old SAT Reasoning Test or a score of 19-21 on the ACT English test
 - Achievement of a weighted high school GPA ≥ 3.0 and 4 years of standard college preparatory high school English courses
- Students who have met the following requirements are *required to participate in the Early Start Program and are ready to enroll in a course that meets the GE Written Communication requirement and includes supported instruction*:
 - A score less than 510 on the Evidence Based Reading Writing section of the new SAT Reasoning Test or a score less than 460 on the old SAT Reasoning Test AND achievement of a high school grade point average of ≤ 3.0
 - A score less than 19 on the ACT English test and the achievement of a high school GPA of ≤ 3.0

Multiple Measures Assessment for General Education Mathematics/Quantitative Reasoning

Based on the systemwide assessment standards for GE mathematics/quantitative reasoning below, freshmen shall enroll in appropriate general education mathematics/quantitative reasoning courses during their first academic year unless the requirement has been fulfilled.

Students who have met the following requirements have *fulfilled the GE Math/Quantitative Reasoning requirement* and are permitted to enroll in the next level of math:

- A score of 3 or above on the College Board Advanced Placement Calculus AB or Calculus BC tests
- A score of 3 or above on the College Board Advanced Placement Statistics test
- A score of 4 or above on the International Baccalaureate Mathematics Higher Level (HL)
- A score of 50 or above on the College Board College Level Examination Program (CLEP) Calculus, College Algebra, College Algebra-Trigonometry, Pre-Calculus, or Trigonometry
- Completion and transfer to the CSU of the credits for a college course that satisfies the CSU General Education requirement in mathematics/quantitative reasoning, provided such a course was completed with a grade of C- or better

Students who are *STEM majors* who have met the following requirements are *ready to enroll in a course that meets the GE Math/Quantitative Reasoning requirement*:

- A result of 'Standard Exceeded: Ready for CSU or participating CCC college-level coursework in mathematics' on the CAASPP Early Assessment Program (EAP) exam
- A score of 570 or above on the mathematics section of the new SAT Reasoning Test
- A score of 550 or above on the mathematics section of the old SAT Reasoning Test
- A score of 550 or above on the SAT Subject Test in Mathematics (level 1 or level 2)
- A score of 23 or above on the ACT Mathematics test
- Completion of a 12th grade mathematics course beyond algebra 2 with a grade of C- or better and a score of 520-560 on the new SAT mathematics test or a score of 490-540 on the old SAT mathematics test
- Completion of a 12th grade mathematics course beyond algebra 2 with a grade of C- or better and a score of 20-22 on the ACT Mathematics test
- A result of 'Standard Met: Conditionally Ready for CSU or participating CCC college-level coursework in mathematics' on the CAASPP Early Assessment Program (EAP) exam AND completion of a 12th grade mathematics course with a grade of C- or better
- Achievement of a weighted high school GPA ≥ 3.7
- Achievement of a weighted high school mathematics GPA ≥ 3.5 and 5+ years of mathematics or quantitative reasoning courses
- Achievement of a weighted high school mathematics GPA ≥ 3.5 and completion of an approved senior year course

Students who are *Non-STEM majors* who have met the following requirements are *ready to enroll in a course that meets the GE Math/Quantitative Reasoning requirement*:

- A result of 'Standard Exceeded: Ready for CSU or participating CCC college-level coursework in mathematics' on the CAASPP Early Assessment Program (EAP) exam
- A score of 570 or above on the mathematics section of the new SAT Reasoning Test
- A score of 550 or above on the mathematics section of the old SAT Reasoning Test
- A score of 550 or above on the SAT Subject Test in Mathematics (level 1 or level 2)
- A score of 23 or above on the ACT Mathematics test
- Completion of a 12th grade mathematics course beyond algebra 2 with a grade of C- or better and a score of 520-560 on the new SAT mathematics test or a score of 490-540 on the old SAT mathematics test
- Completion of a 12th grade mathematics course beyond algebra 2 with a grade of C- or better and a score of 20-22 on the ACT Mathematics test
- A result of 'Standard Met: Conditionally Ready for CSU or participating CCC college-level coursework in mathematics' on the CAASPP Early Assessment Program (EAP) exam AND completion of a 12th grade mathematics course with a grade of C- or better
- A result of 'Standard Met: Conditionally Ready for CSU or participating CCC college-level coursework in mathematics' on the CAASPP Early Assessment Program (EAP exam) and 4 years of mathematics or quantitative reasoning courses
- Achievement of a weighted high school GPA ≥ 3.7
- Achievement of a weighted high school mathematics GPA ≥ 3.5 and 4+ years of mathematics or quantitative reasoning courses

- Achievement of a weighted high school mathematics GPA ≥ 3.0 and completion of 5+ years of mathematics or quantitative reasoning courses
- Achievement of a weighted high school mathematics GPA ≥ 3.0 and completion of an approved senior year course

Students who are *STEM majors* who have met the following requirements are *ready to enroll in a course that meets the GE Math/Quantitative Reasoning requirement and includes supported instruction*:

- Achievement of a high school mathematics GPA ≥ 3.3

Students who are *Non-STEM majors* who have met the following requirements are *ready to enroll in a course that meets the GE Math/Quantitative Reasoning requirement and includes supported instruction*:

- Achievement of a high school mathematics GPA ≥ 3.3
- Achievement of a high school GPA ≥ 3.0

Students who have met the following requirements are *required to participate in the Early Start Program and are ready to enroll in a course that meets the GE Math/Quantitative Reasoning requirement and includes supported instruction*:

- A score less than 510 on the mathematics section of the new SAT Reasoning test or a score less than 490 on the mathematics section of the old SAT Reasoning test AND a high school GPA ≤ 3.2
- A score less than 20 on the ACT Mathematics test AND a high school GPA ≤ 3.2

Conditional Admission of First-time Freshmen

Cal State East Bay may conditionally admit first-time freshman applicants based on their academic preparation through the junior year of high school and planned coursework for the senior year. The campus will monitor the final terms of study to ensure that admitted students complete their secondary school studies satisfactorily, including the required college preparatory subjects, and graduate from high school. Students are required to submit an official transcript after graduation to certify that all coursework has been satisfactorily completed. Official high school transcripts must be received prior to the deadline set by the University. In no case may documentation of high school graduation be received any later than the census date for a student's first term of CSU enrollment. A campus may rescind admission decisions, cancel financial aid awards, withdraw housing contracts and cancel any University registration for students who are found to be ineligible after the final transcript has been evaluated.

Applicants will qualify for regular (non-provisional) admission when the University verifies that they have graduated and received a high school diploma, have earned a qualifiable minimum eligibility index, have completed the comprehensive pattern of college preparatory "a-g" subjects and, if applying to an impacted program or campus, have met all supplementary criteria.

The CSU uses only the ACT composite score, the mathematics and critical reading scores on the old SAT, or the mathematics and Evidence-Based Reading and Writing scores on the new SAT in its admission eligibility equation. The SAT or ACT writing scores are not currently used by CSU campuses.

Subject Requirements

The CSU requires that first-time freshman applicants complete, with grades of C- or better, a comprehensive pattern of college preparatory study totaling 15 units. A "unit" is one year of study in high school.

- 2 years of social science, including 1 year of U.S. history, or U.S. history and government
- 4 years of English
- 3 years of math (algebra, geometry and intermediate algebra; four years recommended)
- 2 years of laboratory science (1 biological & 1 physical, both must have laboratory instruction)
- 2 years in the same foreign language (subject to waiver for applicants demonstrating equivalent competence)
- 1 year of visual and performing arts: art, dance, drama/theater or music
- 1 year of electives: selected from English, advanced mathematics, social science, history, laboratory science, foreign language, visual and performing arts or other courses approved and included on the UC/CSU "a-g" list.

Transfer Requirements

Applicants who have completed fewer than 60 transferable semester college units (fewer than 90 quarter units) are considered lower-division transfer students. Applicants who have completed 60 or more transferable semester college units (90 or more quarter units) are considered upper-division transfer students. Applicants who complete college units during high school or through the summer immediately following high school graduation are considered first-time freshmen and must meet the CSU minimum eligibility requirements for first-time freshman admission. Transferable courses are those designated for baccalaureate credit by the college or university offering the courses and accepted as such by the campus to which the applicant seeks admission.

Lower-Division Transfer Requirements

Due to increased enrollment demands, most CSU campuses do not admit lower-division transfer applicants.

Generally, applicants will qualify for CSU admission consideration as a lower-division transfer if they have a cumulative GPA of at least 2.0 in all transferable units attempted, are in good standing at the last college or university attended, and meet any of the following standards:

1. Will meet the freshman admission requirements (GPA and subject requirements) in effect for the term to which they are applying (see "Freshman Requirements"); or
2. Were eligible as a freshman at the time of high school graduation except for missing college preparatory subject requirements, have been in continuous attendance in an accredited college since high school graduation, and have made up the missing subject requirements with a 2.0 or better GPA.

Applicants who graduated from high school prior to 1988 should contact the admission office to inquire about alternative admission programs.

Lower-division applicants who did not complete subject requirements while in high school may make up missing subjects in any of the following ways:

1. Complete appropriate courses with a C- or better in adult school or high school summer sessions.
2. Complete appropriate college courses with a C- or better. One college course of at least three semester or four quarter units will be considered equivalent to one year of high school study.
3. Earn acceptable scores on specified examinations, e.g., SAT subject tests.

Please consult with the CSU campus admission office to which you are applying for further information about alternative ways to satisfy the subject requirements.

Upper-Division Transfer Requirements

Generally, applicants will qualify for consideration for upper-division transfer admission if they meet all of the following requirements:

1. Cumulative grade point average of at least 2.0 in all transferable units attempted;
2. In good standing at the last college or university attended; and
3. Completed at least sixty (60) transferable semester (90 quarter) units of college level coursework with a grade point average of 2.0 or higher and a grade of C- or better in each course used to meet the CSU general education requirements in written communication, oral communication, critical thinking, and quantitative reasoning, e.g. mathematics.

The 60 units must include at least 30 units of courses that meet CSU general education requirements, including all of the general education requirements in communication in the English language (both oral and written) and critical thinking and the requirement in mathematics/quantitative reasoning (usually 3 semester units) OR the Intersegmental General Education Transfer Curriculum (IGETC) requirements in English communication and mathematical concepts and quantitative reasoning.

Associate Degrees for Transfer (AA-T or AS-T)

The Associate in Arts for Transfer (AA-T) and the Associate in Science for Transfer (AS-T) degrees offered at the California Community Colleges (CCC) are designed to provide a California community college student the optimum transfer preparation and a clear admission pathway to the CSU degree majors.

CCC students who earn an Associate Degree for Transfer (AA-T or AS-T) are guaranteed admission with junior standing to a CSU and given priority admission over other transfer applicants when applying to a local CSU campus or non-impacted CSU program. AA-T or AS-T admission applicants are given limited priority consideration based on their eligibility ranking to an impacted campus/program or to campuses/programs that have been deemed similar to the degree completed at the community college. Students who have completed an AA-T/AS-T in a program deemed similar to a CSU major are able to complete remaining requirements for graduation within 60 semester (90 quarter) units. It is the responsibility of the student who has earned an AA-T/AS-T to provide documentation of the degree to the CSU campus.

Note: CCC students may be eligible for the California Promise program (see the section in the Registration & Enrollment Chapter for additional information).

The California Promise is a program established through California Senate Bill 412 to facilitate graduation for transfer students who have completed an Associate Degree for Transfer. The California Promise program is open to California residents for purposes of in-state tuition eligibility.

Eligibility

Beginning Fall Semester, 2018, students eligible to join the California Promise Program must be:

- incoming transfers with an Associate Degree for Transfer relevant to their admitted major, and
- participants must be California residents for purposes of in-state tuition eligibility.

Program Requirements

Once enrolled in the California Promise program, students must sign a pledge which states they will satisfy the requirements for continued enrollment in the Program.

- Successfully complete 30 units towards the degree every academic year (including Winter and/or Summer Sessions).
- Complete the degree program within two years for transfer students, beginning with the first term of enrollment.
- Maintain good academic standing, including a CSUEB GPA of 2.0 or above.
- Complete all required courses on the first attempt with the minimum grade requirements for the major.
- Complete a California Promise advising workshop and associated workshop requirements.
- Remain in the admitted major. (Students who change majors must receive approval from the California Promise advisor in the college of the new major, verifying that the change of major will allow the student to graduate in two years from their first term of enrollment as a transfer student.)
- Register for classes during the assigned California Promise priority registration window (within the first 24 hours of the registration appointment) and pay fees by the required deadlines.

Benefits of participating in the California Promise Program

- Advising specific to graduating in two years
- Early registration time
- On-time completion of the degree can save the student money.

Applying to Cal State East Bay's California Promise Program

Messages will be sent to the student's MyCSUEB account in May. Eligible incoming students (California residents admitted as a transfer with a verified Associate Degree for Transfer degree relevant to their admitted major) will receive a message in their MyCSUEB account after the Intent to Enroll deadline, sometime in the month of May. This will contain a link to submit the application to the California Promise program. Submission of application does not guarantee admission to the program. Applicants must have earned the Associate Degree for Transfer degree no later than at the time of admission.

Questions

For questions not addressed here, please contact the California Promise Advisor at: californiapromise@csueastbay.edu

Conditional Admission For Transfer Students

Cal State East Bay may conditionally admit transfer applicants based on their academic preparation and courses planned for completion. The campus will monitor the final terms to ensure that those admitted complete all required courses satisfactorily. All accepted applicants are required to submit an official transcript of all college level work completed. Campuses may rescind admission for any student who is found to be ineligible after the final transcript has been evaluated. In no case may such documents be received and validated by the University any later than a student's registration for their second term of CSU enrollment.

Note: Transcripts with all final grades posted must be received by the transcript deadline.

Evaluation of Admission Eligibility

After an applicant receives an acknowledgment from Cal State East Bay that their application has been received, they will be requested to submit required documents (i.e. official transcripts, test scores, etc.), if they have not previously done so. It is the applicant's responsibility to see that all official transcripts are sent directly to the Office of Admission from each previous institution attended by the deadline specified on the student's *MyCSUEB To Do List*. Neither evaluation of transcripts and test scores nor determination of eligibility is possible until all required documents have been received.

- First-time freshmen must submit official transcripts of high school work (grades 9-12). Scores from the ACT or SAT examinations are required. If an applicant is still in high school, they must submit transcripts of work as instructed and a final transcript after graduation.
- If an applicant is applying for undergraduate transfer, graduate, or post-baccalaureate admission, they must submit an official transcript from each college or university previously attended by the deadline specified on the student's *MyCSUEB To Do List*, regardless of length of attendance, and even if no work was completed.
- If an applicant is an international student or non-U.S. citizen, they may be required to submit additional records. See International Admissions Requirements in this chapter.

Note: The University has the obligation to determine whether a transcript will be accepted as official. All transcripts and records submitted for admission or readmission become the property of the University. Students may access their academic records according to policies and procedures established by the campus. Applicants must submit official transcripts from all colleges and universities they have attended so their entire academic experience can be evaluated. Failure to do so will be grounds for denial of admission or readmission or for dismissal from the University.

Application Denial and Appeal

Section 89030.7 of the California Education Code requires that the CSU establishes specific requirements for appeal procedures for a denial of admission. Each CSU campus must publish appeal procedures for applicants denied admission to the University. The procedure is limited to addressing campus decisions to deny an applicant admission to the University.

Admissions appeal procedures must address the basis for appeals, provide 15 business days for an applicant to submit an appeal, stipulate a maximum of one appeal per academic term, provide specific contact information for the individual or office to which the appeal should be submitted, and indicate a time estimate for when the campus expects to respond to an appeal. The appeal procedures must be included in all denial of admission notifications to students, and must also be published on the campus website.

If the applicant does not meet published admission eligibility standards, the student may petition the Admissions Appeals Committee for reconsideration. There is a limit on the number of exceptions to published admission criteria for which the campus may grant an exception. The Committee, therefore, considers a number of factors, normally favoring applicants who are close to qualifying and who are upper division students. Instructions for submitting an appeal are provided to eligible denied students.

If the applicant comes from a disadvantaged background or is a veteran, they may be considered under special criteria in addition to that stated above.

Determination of Residency for Tuition Purposes

University requirements for establishing residency for tuition purposes are independent from those of other types of residency, such as for tax purposes, or other state or institutional residency. These regulations were promulgated not to determine whether a student is a resident or nonresident of California, but rather to determine whether a student should pay university fees on an in-state or out-of-state basis. A resident for tuition purposes is someone who meets the requirements set forth in the Uniform Student Residency Requirements. These laws governing residency for tuition purposes at the California State University are California Education Code sections 68000-68085, 68120-68133, and 89705-89707.5, and California Code of Regulations, Title 5, Subchapter 5, Article 4, sections 41900-41916. This material can be viewed by accessing the California State University's website at www.calstate.edu/GC/resources.shtml.

Each campus' Admissions Office is responsible for determining the residency status of all new and returning students based on the Application for Admission, Residency Questionnaire, Reclassification Request Form and, as necessary, other evidence furnished by the student. A student who fails to submit adequate information to establish eligibility for resident classification will be classified as a nonresident.

Generally, establishing California residency for tuition purposes requires a combination of physical presence and intent to remain indefinitely in the State of California. An adult who, at least 366 days prior to the residency determination date for the term in which enrollment is contemplated, can demonstrate both physical presence in the state combined with evidence of intent to remain in California indefinitely may establish California residency for tuition purposes. A minor normally derives residency from the parent(s) with whom he/she resides or most recently resided.

Evidence demonstrating intent may vary from case to case but will include, and is not limited to, the absence of residential ties to any other state, California voter registration and voting in California elections, maintaining California vehicle registration and driver's license, maintaining active California bank accounts, filing California income tax returns and listing a California address on federal tax returns, owning residential property or occupying or renting a residence where permanent belongings are kept,

maintaining active memberships in California professional or social organizations, and maintaining a permanent military address and home of record in California.

A nonresident student seeking reclassification is required to complete a supplemental questionnaire that includes questions concerning his/her financial independence. Financial independence is required, in addition to physical presence and intent to remain indefinitely, to be eligible for reclassification. Financial independence is established if in the calendar year the reclassification application is made - and in any of the three calendar years preceding the reclassification application - the student:

- has not and will not be claimed as an exemption for state and federal tax purposes by his/her parent(s);
- has not and will not receive more than \$750 per year in financial assistance from his/her parent(s); and
- has not lived and will not live longer than six weeks in the home of his/her parent(s).

A nonresident student who has been appointed as a graduate student teaching assistant, a graduate student research assistant, or a graduate student teaching associate on any CSU campus and is employed on a 0.49 or more time basis is exempt from the financial independence requirement.

Non-citizens establish residency in the same manner as citizens, unless precluded by the Immigration and Nationality Act from establishing domicile in the United States.

Exceptions to the general residency requirements are contained in California Education Code sections 68070-68085 and California Code of Regulations, Title 5, Subchapter 5, Article 4, sections 41906-41906.6, 41910. Whether an exception applies to a particular student can only be determined after the submission of an application for admission and, as necessary, additional supporting documentation. Because neither the campus nor Chancellor's Office staff may give advice on the application of these laws, applicants are strongly urged to review the material for themselves and consult with a legal advisor.

Residency determination dates are set each term. They are:

Semester Term Campuses	
Fall	September 20
Winter*	January 5
Spring	January 25
Summer	June 1
* Applies only to winter term at CSU Stanislaus	

CalState TEACH operates on a trimester system. The residency determination dates for CalState TEACH are as follows:

- Fall - September 20
- Spring - January 5
- Summer - June 1

Nonresident Classification Appeal Process

Students classified as nonresidents may appeal a final campus decision within 30 days of notification by the campus. Information on the appeal process may be found at <http://www.calstate.edu/sas/residency/appeals.shtml>. A campus residency classification appeal must be submitted via the InfoReady online Residence Appeal Form to the California State University Chancellor's Office at:

<https://calstate.infoready4.com/#competitionDetail/1760156>

Appeals via email, fax and U.S. mail will not be accepted. A student with a documented disability that prohibits the student from submitting an appeal through the *InfoReady* site should contact Student Academic Services:

California State University
Attn: Student Academic Services
401 Golden Shore, 6th Floor
Long Beach, CA 90802-4210
Email: residencyappeals@calstate.edu

The Chancellor's Office can either decide the appeal or send the matter back to the campus for further review. Students incorrectly classified as residents or incorrectly granted an exception from nonresident tuition are subject to reclassification as nonresidents and payment of nonresident tuition in arrears. If incorrect classification results from false or concealed facts, the student is also subject to discipline pursuant to Section 41301 of Title 5 of the California Code of Regulations.

Resident students who become nonresidents or who no longer meet the criteria for an exception must immediately notify the Admissions Office. Changes may have been made in the rate of nonresident tuition and in the statutes and regulations governing residency for tuition purposes in California between the time this information is published and the relevant residency determination date. Students are urged to review the statutes and regulations stated above.

California Resident Freshmen Early Start Program

The Early Start Program serves CSU admitted freshmen who have not demonstrated proficiency in written communication and/or mathematics/quantitative reasoning as determined by systemwide placement standards. Participation in the Early Start Program is required for students needing skills development in these areas; students will be expected to enroll in a written communication course or a mathematics/quantitative reasoning course (but not both) during the summer period prior to the start of

the fall term. Students required to participate in the Early Start Program may choose to enroll at any CSU campus; the earned baccalaureate credit will be transferred seamlessly to the student's destination campus.

The goals of the Early Start Program are to:

- Better prepare students in written communication and mathematics/quantitative reasoning before the start of the fall semester of the freshman year;
- Add an important and timely assessment tool in preparing students for college; and
- Improve the opportunity for students to successfully complete their college degrees.

Educational Opportunity Program (EOP) & Summer Bridge

Established in 1969, the Educational Opportunity Program (EOP) provides admission and retention support services to low-income and educationally disadvantaged California residents who demonstrate the motivation and potential to succeed in college. EOP identifies and admits students who have the potential to succeed at California State University campuses, but who have not achieved their educational goals because of economic and/or educational background. EOP provides students with the resources, tools and skills to ensure academic and personal success through a variety of academic support services. These services provided by EOP include recruitment, preadmission counseling, special admissions, a *Summer Bridge program* (for entering EOP freshmen), specialized orientation sessions, academic advisement, personal counseling, skill-enhancement workshops, career guidance, peer advising, support groups, social/cultural activities, referral services, and EOP grants for eligible students.

Summer Bridge is a transition program for a select group of newly admitted Educational Opportunity Program (EOP) freshmen students to prepare them for their first year at Cal State East Bay. This intensive college readiness program is designed to provide incoming EOP exception admit freshmen with the following academic, social, and multicultural experiences to smooth their transition from high school to the University's environment:

- Provide classes in English and Mathematics to enhance academic skills
- Acquaint students to the University and its many resources
- Provide workshops in the foundations of college success
- Make new friends
- Meet college professors
- Work with their counselors and peer advisors
- Select Fall semester classes
- Provide cultural and social activities

EOP accepts students who qualify for regular admission, as well as a limited number of students who do not meet regular admission criteria. Only low-income and educationally disadvantaged undergraduate students who need admission assistance and/or support services to succeed at Cal State East Bay are admitted to EOP. Additionally, students must be first generation college students, meet the income eligibility criteria, and either be California residents or AB 540. They must also demonstrate academic potential and motivation to succeed.

To apply for admission to the program, prospective students must complete the online *CALSTATE Apply* Application for Undergraduate Admission and check the appropriate box for EOP services. Once the Cal State East Bay application is submitted (online), EOP applicants will receive an online EOP link and have access to complete the EOP Applicant Information Form and two EOP recommendation forms. Students must have all three documents submitted in order for their EOP application to be complete.

EOP is a high-demand program which only accepts applications for Fall term from applicants new to the CSU system. Currently enrolled and/or previously enrolled students (not formerly in an EOP CSU program) are not eligible to apply. Applicants who submit all required documents will be reviewed and if selected, will be admitted to EOP. All EOP freshmen receiving exception admission are required to attend the EOP Summer Bridge program as a condition of their admission for Fall term.

For assistance or for further information about EOP and the Summer Bridge program, please visit the EOP Office at Student and Faculty Support (SF) Building 224, or online at www.csueastbay.edu/eop. Prospective applicants can also email eopadmissions@csueastbay.edu or call (510) 885-4683 for more information.

Declaration of Major Objective

When a student applies for undergraduate admission they must state an objective (major and degree) to be pursued. In addition, once the student has been enrolled at the University, faculty, as well as staff of the Academic Advising and Career Education Center, are available to assist the student in selecting a major and degree program. The responsibility for meeting the specific requirements of a program or major rests with the student, but the advisor or the department chair of their selected major will help the student determine the courses remaining for completion of major requirements.

Academic Advising and Career Education may also assist the student in determining General Education requirements.

Alternative Admission Criteria for Adults 25-years and Over

As an alternative to regular admission criteria, an applicant who is 25 years of age or older may be considered for admission as an adult student if he or she meets all of the following conditions:

1. Possesses a high school diploma (or has established equivalence through either the General Educational Development or California High School Proficiency Examinations).
2. Has not been enrolled in college as a full-time student for more than one term during the past five years.
3. If there has been any college attendance in the last five years, has earned a 2.00 GPA or better in all college work attempted.

Consideration will be based upon a judgment as to whether the applicant is as likely to succeed as a regularly admitted freshman or transfer student and will include an assessment of basic skills in the English language and mathematical computation.

Programs Leading to Licensure & Credentialing

See Errata for correction to this content.

Admission into programs leading to licensure and credentialing does not guarantee that students will obtain a license or credential. Licensure and credentialing requirements are set by agencies that are not controlled by or affiliated with the CSU and requirements can change at any time. For example, licensure or credentialing requirements can include evidence of the right to work in the United States (e.g., Social Security number or tax payer identification number) or successfully passing a criminal background check. Students are responsible for determining whether they can meet licensure or credentialing requirements. The CSU will not refund tuition, fees, or any associated costs, to students who determine subsequent to admission that they cannot meet licensure or credentialing requirements. Information concerning licensure and credentialing requirements are available from the Credentialing Student Services Center or see the College of Education & Allied Studies website.

(Students in Biological Science, Educational Psychology, Engineering, Kinesiology, Nursing, and Teacher Education, in particular should be aware of these provisions.)

Credit for Military Training and USAFI

Cal State East Bay grants six (6) semester units of credit toward a baccalaureate degree for a student who completed basic training and was honorably discharged from military service of the United States after serving at least one year and one day, in accordance with the recommendation of the American Council on Education. Three (3) of these units may be applied toward General Education Area E.

Note: Credit is not given for completion of the six month reserve training programs.

Commissioned officers may receive an additional six (6) semester units, which may be considered upper division elective credit. In order to receive such credit applicants must present written certification from a recognized military authority, such as papers from a military separation center (service form DD-214 or DD-295) or a Joint Services Transcript (JST). Credit for specific courses may be allowed if the student has satisfactorily completed equivalent study in a military service school. The guidelines of the American Council on Education are followed in determining eligibility.

Cal State East Bay is a Servicemember Opportunity College (SOC).

Also see: Military & Veterans Information & Services chapter.

Credit for Advanced Placement & International Baccalaureate Tests

Cal State East Bay grants credit toward its undergraduate degrees for successful completion of Advanced Placement (AP) and International Baccalaureate (IB) program tests. Students will be granted college credit for each test completed, depending upon the specific discipline.

Also see the Requirements, Exams & Testing chapter.

Credit for Experience and Prior Learning

No unit credit is allowed toward the bachelor's or master's degrees for practical experience. An exemption allowed for experience will not carry units of advanced standing or diminish the number of units required for graduation.

Transfer Policies of CSU Campuses

Most commonly, college-level credits earned from an institution of higher education accredited by a regional accrediting agency are accepted for transfer to campuses of the CSU; however, authority for decisions regarding the transfer of undergraduate credits is delegated to each CSU campus.

California Community Colleges and other authorized certifying institutions can certify up to 39 semester (58.5 quarter) units of General Education-Breadth (GE-Breadth) or 37 semester (55.5 quarter) units of the Intersegmental General Education Transfer Curriculum (IGETC) for transfer students to fulfill lower-division general education requirements for any CSU campus prior to transfer.

"Certification" is the official notification from a California Community College or authorized institution that a transfer student has completed courses fulfilling lower-division general education requirements. The CSU GE-Breadth and the Intersegmental General Education Transfer Curriculum (IGETC) certification course lists for particular community colleges can be accessed at: www.assist.org.

CSU campuses may enter into course-to-course or program-to-program articulation agreements with other CSU campuses, any or all of the California community colleges and other regionally accredited institutions. Established CSU and CCC articulations may be found on www.assist.org. Students may be permitted to transfer no more than 70 semester (105 quarter) units to a CSU campus from an institution which does not offer bachelor's degrees or their equivalents, for example, community colleges. Given the university's 30-semester (45-quarter) unit residency requirement, no more than a total of 90 semester (135 quarter) units may be transferred into the university from all sources.

California Community Colleges GE Certification

California Community Colleges and other authorized certifying institutions can certify up to 39 semester (60 quarter) units of General Education-Breadth (GE) or 39 semester (60 quarter) units of the Intersegmental General Education Transfer Curriculum (IGETC) for transfer students to fulfill lower-division general education requirements for any CSU campus prior to transfer.

"Certification" is the official notification from a California Community College or authorized institution that a transfer student has completed courses fulfilling lower-division general education requirements. The CSU GE and the Intersegmental General Education Transfer Curriculum (IGETC) certification course lists for particular community colleges can be accessed at www.assist.org.

CSU campuses may enter into course-to-course or program-to-program articulation agreements with other CSU campuses and any or all of the California Community Colleges, and other regionally accredited institutions. Established CSU and CCC articulations may be found on www.assist.org. Students can apply no more than 70 semester units to a CSU campus from an institution which does not offer bachelor's degrees or their equivalents, for example, community colleges.

If a transfer student completes the Intersegmental General Education Transfer Curriculum (IGETC) and it is certified as being complete by their community college, they have satisfied the entire 39 semester unit lower division GE program and have only the three courses, 9 semester units, of the upper division GE program to complete.

Note: Even though a student's certification from a California Community College (CSU GE pattern for CSU Intersegmental General Education Transfer Education Transfer Curriculum-IGETC) or another CSU campus may show more than the maximum number of certifiable units, they must still complete a minimum of 9 upper-division residence GE semester units at Cal State East Bay or another CSU.

If the student's catalog rights for graduation are governed by this catalog, they must complete the following:

- Area B6, an upper-division Science Inquiry or Quantitative Reasoning course of at least 3 units selected from the Area B6 list;
- Area C4, an upper-division Arts or Humanities course of at least 3 units selected from the Area C4 list;
- Area D4, an upper-division Social Science course of at least 3 units selected from the Area D4 list;
- The Overlay requirements may be satisfied simultaneously with lower- or upper-division Area GE requirements, courses in the student's major, or as an elective course selected from Cal State East Bay's Overlays list. This requirement can also be satisfied by lower-division GE transfer courses that meet the CSUEB criteria; and
- The Second Composition requirement for transfer students, is satisfied with ENGL 200 (College Writing II), another approved second composition course, or an equivalent transfer course. Students who satisfy GE Area A3, Critical Thinking, using a course on the IGETC Critical Thinking list can also use that course to satisfy the Cal State East Bay Second Composition requirement.

Under certain circumstances, a student may be covered by different catalogs for their GE and major requirements. Please see an advisor for more information.

Students whose catalog rights for graduation fall under an earlier catalog should check the GE requirements for that catalog.

Students must complete at least 30 semester (45 quarter) units of GE including GE Areas A (English Language Communication and Critical Thinking) and B4 (Mathematics/Quantitative Reasoning) before transferring as a junior.

Transfer Credit Information

New undergraduate transfer students can view their preliminary degree audit in MyCSUEB after they are admitted to the University and have submitted all required transcripts. A complete evaluation of transfer courses applying to general education will be completed by the Office of the Registrar, and students will be notified by Horizon e-mail when this has been completed. Requirements specific to a student's chosen major will be reviewed by the respective department. Students should check their degree audit regularly

so they are aware of remaining graduation requirements, and discuss any discrepancies with an academic or major advisor.

Credit for Accredited Community College Courses

Cal State East Bay and California Community Colleges have articulation agreements regarding course equivalencies. Students who are planning to transfer to Cal State East Bay should consult with their community college counselors as to whether or not particular courses meet CSU specific requirements. Academic Advising and Career Education (AACE) advisors, located on the second floor of the Student Services and Administration Building, are available to discuss and explain students' transfer evaluations or the Degree Audit Report on **MyCSUEB**. An official evaluation or an update of a prior evaluation is available by appointment. (Also see the *Student Services* chapter in this catalog for additional information.)

Credits earned at accredited community colleges will be evaluated by the Office of Admission in accordance with the following provisions:

1. Not more than 70 semester (105 quarter) units of credit may be allowed for community college work; community college credit earned after the student has earned 70 semester units at one or more community colleges will be used for determining grade point averages and may be used to satisfy subject requirements, but may not be applied toward the total units required for the bachelor's degree.
2. No credit may be allowed for professional courses in education taken in a community college, other than an introduction to education course.
3. Certification of part or all of the lower division General Education-Breadth Requirements completed may be submitted by the California Community College from which the student is transferring. Students should request a General Education (GE) certification at the time they request a transcript to be sent to Cal State East Bay. Nine upper division GE semester units must be completed at Cal State East Bay.
4. Certification of the completion of the Cal State East Bay requirements in U.S. History and Institutions will also be accepted from a community college.

Credit for Other Collegiate Work

Students who have taken coursework at another institution while in continuing student status at Cal State East Bay must request an official transcript be sent to the Office of the Registrar. Credit from institutions not regionally accredited will not be used in determining admission eligibility, nor will it normally be used to meet graduation requirements.

Credit for Continuing Education Work

Students may count a maximum of 24 semester (36 quarter) units of extension credit toward a baccalaureate degree at Cal State East Bay. Any such units not earned at Cal State East Bay must be

earned in courses deemed acceptable for Cal State East Bay degrees and course units must come from accredited institutions that accept the units toward their own degrees.

No extension credit may be applied toward the residency requirement for undergraduates or graduates. Courses taken in Cal State East Bay Special Sessions programs, e.g., summer session courses, may be applied toward residency. All transferable extension will be used for determination of the undergraduate grade point average.

Transfer Student Provisions

In general, degree requirements are the same, but special provisions safeguard the programs taken by students at California Community Colleges and other CSU campuses. For transfer students, the following provisions apply.

1. If a transfer student completes GE courses approved for transfer to the CSU and they are certified by the student's California Community College and/or CSU campus (or another campus accepts them and certifies them), Cal State East Bay will accept them to meet the requirements for which they are certified. According to the Code, CSU cannot accept more than 39 semester units (or 60 quarter units).
2. If a transfer student completes any part or all of the U.S. history, U.S. Constitution, and California state and local government requirement at a California Community College or other CSU campus and it is certified, Cal State East Bay will accept that certification for completion for all, or part of, the requirement. Contact the corresponding academic department (e.g., History) with any questions about this requirement.
3. If a transfer student successfully completed a course at another university or college that is not certified for the CSU GE program, but believes it meets the criteria listed earlier for a specific requirement, they may request an "exception" on their degree audit. If they believe they have a petitionable course, they should discuss it with their advisor, with a GE advisor in the Academic Advising and Career Education Office, or the GE Office. If the advisor agrees, the advisor will submit the exception request for review. After action on the request for an exception, an e-mail to the student's Horizon account will notify them of the decision. Likewise, if the student believes they have a petitionable course for the U.S. history and government requirement, they may request an exception. In this case, the student must go to the department appropriate to the course and review the issue with the department chair. If the chairperson agrees, they will approve the exception and note it on the student's degree audit.
4. Cal State East Bay has articulation agreements for all of its majors with all California Community Colleges. These may be viewed online at: <http://www.assist.org>. If a transfer student followed one of these major articulation agreements and completed all equivalent lower division work at the community college, the major department will consider the student's lower division major complete. If they did not follow an articulation agreement, the major department will evaluate their transfer courses individually for equivalence.
5. Cal State East Bay also maintains pre-approved transfer courses from multiple private and out-of-state colleges. They may be viewed online at: TES.
6. The graduation writing proficiency requirement (called the University Writing Skills Requirement or "UWSR" at Cal State East Bay) is mandatory on all CSU campuses. Cal State

East Bay will accept certification of the graduation writing proficiency requirement from any CSU campus. However, written documentation must be provided certifying that the entire requirement was satisfied at the other campus where the student was enrolled as a matriculated student. ("Matriculation" means regularly enrolled after being admitted to a university.) A student cannot, for example, take a writing proficiency test at another campus to meet the UWSR at Cal State East Bay while they are matriculated at Cal State East Bay.

Note: Although students can complete a sizable portion of their graduation requirements at other colleges and universities, they should not forget the residence requirements previously listed. These must be satisfied while matriculated and enrolled at Cal State East Bay.

Transfer of University-level Work from Outside the U.S.

Transfer students with university-level work earned outside the U.S. will be accepted if the overall grade point average of that work is equivalent to the stated minimum grade point average requirements for admission. Transfer credit for university-level course work earned outside of the U.S. will be awarded after a course-by-course evaluation by the International Admissions Office.

Transferable Units through the CSU International Program

A student may also apply units earned through the CSU International Programs that meet the criteria outlined in the lower-division and upper-division transfer requirements in this chapter. If a student also wishes to apply transfer credits to their degree, the total of the transfer and International Program units may not exceed one-half of those required for the degree. If a student completes their capstone experience (thesis, project, or comprehensive examination) while in the International Programs, this must be done under the supervision of at least one Cal State East Bay faculty member.

Also see the Center for International Education for more information.

Registration & Enrollment

Matriculation & Registration Information

- A Matriculated Student
- CSU Immunization Requirements
- Enrollment
- Student Enrollment Information Center
- Undergraduate Class Standing

Enrollment Policies

- General Enrollment & The MyCSUEB System
- Enrollment Appointment Times
- Registration Restrictions
- California Promise
- Enrollment Policies for International Students
- Non-Matriculated Enrollment
- High School Students Enrollment in Special Programs
- Intrasystem & Intersystem Enrollment Programs
- Undergraduate Academic Course Load
- Undergraduate Status as Full or Part-Time
- Enrollment & Degree Progress
- California Resident Freshmen Early Start Program

Enrollment Information

- Add/Drop Period
- Adding Courses
- Dropping Courses
- Schedule Changes
- Withdrawing from a Course
- Withdrawal from the University
- Special Registration Petitions
- Cross-Registration Program with UC Berkeley
- Planned Educational Leave
- Petitioning for Graduate Credit

A Matriculated Student

Matriculation

Upon being fully admitted to the University and having submitted the Student Intent to Register form, the student is registered as a "matriculated student". The student will be issued an enrollment appointment on MyCSUEB to sign up for classes.

Students who fail to enroll in a class during their first term as a matriculated student or who do not enroll in classes for two consecutive semesters (not including summer or winter sessions) and do not enroll in the third consecutive semester are discontinued and will be required to submit a new application to the University for readmission. That is, they lose their status as a matriculated student.

Students who fail to fulfill enrollment or matriculation requirements, or otherwise fail to adhere to academic or Cal State East Bay regulations, are subject to immediate administrative action which may result in the student being placed on Administrative Probation, or having enrollment for that term cancelled.

CSU Immunization Requirements

Entering CSU students are required to present proof of the following immunizations to the CSU campus they will be attending before the beginning of their first semester of enrollment.

- **Measles and Rubella Immunization.**

All new and readmitted students must provide proof of full immunization against measles and rubella prior to enrollment. Failure to comply with this requirement will result in a hold being placed on the student's registration.

- **Tuberculin Skin Test or Chest X-Ray.**

International students must provide written proof of a Tuberculin Skin Test or chest x-ray performed in the U.S.A. during the past 12 months. Failure to comply with this requirement will result in a hold being placed on the student's registration.

- **Hepatitis B.**

All new students who will be 18 years of age or younger at the start of their first term at a CSU campus must provide proof of full immunization against Hepatitis B before enrolling. Full immunization against Hepatitis B consists of three timed doses of vaccine over a minimum 4 to 6 months period. Students who need further details or have special circumstances should consult with Student Health and Counseling Services. Each incoming freshman who will be residing in on-campus housing will be required to return a form indicating that they have received information about Hepatitis B and the availability of the vaccine to prevent contracting the disease and indicating whether or not the student has chosen to receive the vaccination. Failure to comply with this requirement will result in a hold being placed on the student's registration. Hepatitis B immunization is available at Student Health and Counseling Services for no, or low cost. Call Student Health and Counseling Services at (510) 885-3735 for more information or to make an appointment. For convenience, a form is available online for students to download and complete. See the Student Health and Counseling Services Web site for this form or for additional information at: <http://www.csueastbay.edu/shcs>.

- **Meningococcal Disease.**

Meningococcal disease is a potentially life-threatening bacterial infection known to occur more frequently among students living in residence halls. It is recommended that all incoming residential students consider the Meningococcal Vaccine as a way to reduce their risk for this potentially fatal disease. Each incoming freshman who is residing in on-campus housing is required to return a form indicating that they have received information about meningococcal disease and the availability of the vaccine to prevent contraction of the disease, and to indicate on the form whether or not the student has chosen to receive the vaccination. The vaccine is available at Student Health and Counseling Services.

Note: The above are not admission requirements, but are required of students as conditions of enrollment in CSU. However, The University reserves the right to select its students and deny admission to the University or any of its programs as the University, in its sole discretion, determines appropriate based on an applicant's suitability and the best interests of the University.

The Student Health and Counseling Services Center at Cal State East Bay provides immunizations, tuberculin skin tests, laboratory and chest x-ray exams for students at low cost by appointment. For more information, call Student Health and Counseling Services at (510) 885-3735 or visit the Student Health and Counseling Services Web site at: <http://www.csueastbay.edu/students/campus-life/shcs/>.

Note: To remove a registration hold for measles/rubella, tuberculin tests, or Hepatitis B, bring written proof to the Reception Desk at the Student Health and Counseling Services Center.

Enrollment

Students at Cal State East Bay can enroll for classes prior to each term via the University's online registration system in *MyCSUEB*. Demonstrations and instructions for the enrollment process can be found within the "Help" feature in *MyCSUEB*. Students requiring assistance may call the Office of the Registrar at (510) 885-2784 or visit the Student Enrollment Information Center on the first floor of the Student Services and Administration Building on the Hayward Campus or in the lobby of the Academic Services Building on the Concord Campus.

Student Enrollment Information Center

The Hayward campus Enrollment Information Center (EIC) is located on the first floor of the Student Services and Administration Building. It provides general information related to admission, financial aid, records and registration, and graduation evaluation. The Enrollment Information Center is open Monday through Thursday from 8:30 a.m. to 5:30 p.m.; and Friday from 10:00 a.m. to 5:00 p.m. During the first five days of instruction each semester extended hours are 8:00 am to 6:00 pm except Fridays when the closing time is 5:00 pm. The Cashier's Office, also located on the 1st floor of Student Services and Administration Building next to the Student Enrollment Information Center, is open Monday from 8:30 a.m. to 6:00 p.m.; Tuesday through Thursday from 8:30 a.m. to 5:00 p.m.; and Friday from 9:30 a.m. to 4:30 p.m. Students seeking service from departments should contact those offices directly.

Academic Assistance is open 9:00 a.m. to 6:00 p.m. Monday through Thursday, and until 5:00 p.m. on Friday for questions regarding services and to schedule advising appointments. Academic advising is available for all undergraduate students regarding their non-major degree requirements. Drop-in advising is available Tuesday and Wednesday, 10:00 a.m. to 12:30 p.m., and 3:00 p.m. to 5:30 p.m. Appointments may also be scheduled in advance and, if needed, 6:00 p.m. appointments are available. Students should bring all their advising records including their most recent general education evaluation or degree audit when they come for advising. Please call (510) 885-3621 for any current changes to advising hours, or go to www.csueastbay.edu/aace.

Concord Student Services is located in the lobby of the Academic Services Building. It is open Monday through Thursday, 9:00 a.m. to 6:30 p.m.

The Concord Campus Academic Services Office provides academic advising. Please call (925) 602-6700 for more information or visit the Concord Campus website at: www.csueastbay.edu/concord/

Undergraduate Status: Class Standing

Undergraduate students are assigned a class standing according to the following plan:

Semester Units Earned Toward the Degree

Lower Division:

Freshmen	Fewer than 30 units
Sophomores	30 but fewer than 60 units

Upper Division:

Juniors	60 but fewer than 90 units
Seniors	90 or more units
Graduating Seniors	100 or more earned units, filed for graduation, and paid the graduation filing fee

General Enrollment Policies & the MyCSUEB Enrollment System

To enroll at Cal State East Bay, students must be admitted to the University.

- Enrollment is complete only when all enrollment requests have been properly recorded and students have paid all fees, deposits, and charges. Dates for enrolling in *MyCSUEB*, the Cal State East Bay enrollment system, are published on the University website under Important Dates.
- Students are given credit only for those courses in which they are officially enrolled in at the conclusion of the Add/Drop period, except for any course which they have officially filed a Withdrawal form(s) and received an approved withdrawal.
- Students will be held responsible for completing all courses for which they are enrolled, except for those courses from which they withdrew.
- If students enroll in a course and do not attend initial class meetings, they may be dropped from the class if demand for the course exceeds capacity. Departments following this practice will make reasonable efforts to inform students of this action but students should not assume that non-attendance will result in them being automatically dropped and verify the accuracy of their schedule in *MyCSUEB* before the end of the Add/Drop period. It is the student's responsibility to check *MyCSUEB* to verify their course enrollment each term.
- The University does not guarantee the availability of particular courses or sections because admission to classes is authorized only until the maximum number of students allowable in any section has been reached.

Approved by the University Academic Senate, the priority for enrollment is as follows (students must meet the criteria at the time enrollment appointments are set):

- Students authorized to receive priority enrollment
- Graduating undergraduate seniors and graduating graduate students, defined as undergraduates who have filed for graduation by the priority deadline and have 100 semester units completed, and graduate or doctoral students who have filed for graduation and/or have been advanced to candidacy by the faculty of the graduate/doctoral program)
- Students authorized to receive early enrollment
- Freshmen
- Post-baccalaureate credential and doctoral students, and conditionally classified/classified graduate students in masters programs
- Seniors
- Juniors
- Sophomores
- Second baccalaureate, post-baccalaureate certificate program, and unclassified post-baccalaureate students
- AB 386 Students (online students from other CSU Campuses)

The priority for enrollment for students enrolling in 600-level and 700-level courses is as follows:

- All graduate students
- Undergraduate students majoring in the department concerned
- All other students

Enrollment Appointment Times

In MyCSUEB, students may enroll for a maximum of 17 units during their assigned enrollment period and after the initial enrollment period "Graduating Students" will be permitted to enroll up to a maximum of 22 units. "Graduating Students" are defined as undergraduate students who have completed 100 units and have filed for graduation by the priority deadline, and graduate students who have filed for graduation by the priority deadline and/or been advanced to candidacy by the faculty of the graduation program, *by the time enrollment appointments have been assigned*. Check the "Important Dates" page of the University website for dates when enrollment appointments will be set. Students who meet the conditions stated above after appointments are assigned are not eligible for priority registration.

To enroll in additional units exceeding the maximum number, approval must be obtained by contacting the student's major department advisor and College Dean. If approved, the student's major department will notify the Office of the Registrar and the student will then be permitted to add the additional units during the open enrollment or Add/Drop periods.

The normal academic load for full time undergraduate students who expect to graduate by enrolling for two semesters each year for four years is 15 units per semester. Because each classroom hour normally requires two hours of outside study per week, working students should carefully balance the time required for academic preparation with outside commitments.

Registration Restrictions

Possible Registration Restrictions

- Students who have earned 30 or more baccalaureate-level semester units without having satisfied G.E. areas A2 and B4 will not be permitted to register for additional coursework at Cal State East Bay.
- Students who have earned 60 or more baccalaureate-level semester units without having satisfied G.E. areas A1 and A3 will not be permitted to register for additional coursework at Cal State East Bay.
- Students who have earned 60 or more baccalaureate-level semester units and have been accepted into a major will not be permitted to register for additional coursework at Cal State East Bay.
- Students who have earned 75 or more baccalaureate-level semester units and have not taken the Writing Skills Test (WST) or enrolled in ENGL 300 or ENGL 301 will be notified to take the WST during the current semester and will have a registration hold placed for the following semester. Upon taking the WST or enrolling in the appropriate course the registration hold will be removed.
- If a student or former student fails to pay a debt owed to Cal State East Bay, the University may "withhold permission to enroll, to use facilities for which a fee is authorized to be charged, to receive services, materials, food or merchandise or any combination of the above from any person owing a debt" until the debt is paid (see Sections 42380 and 42381 of Title 5, California Code of Regulations). For example, Cal State East Bay may withhold production of official transcripts of grades to any person owing a debt. Students who believe that they do not owe all or part of an unpaid obligation should contact Student Financial Services. They will review the pertinent information, including information students may wish to present, and will advise students of their

conclusions with respect to the debt. Students should check **MyCSUEB** to verify whether any holds exist that will block registration for the next or subsequent term.

Note: The University reserves the right to select its students and deny admission to the University or any of its programs as the University, in its sole discretion, determines appropriate based on an applicant's suitability and the best interests of the University.

The California Promise

The California Promise Program at Cal State East Bay is for students with Associate Degrees for Transfer from any California Community College. It allows those students to complete their baccalaureate degrees in 2 years. The program is limited to students who are residents of California.

Students who commit to enter the 2-year pledge will be given a priority registration appointment for each state-supported enrollment period and will be provided with routine and thorough academic advisement. In order to remain in the program, students must meet with their advisors as prescribed, develop an enrollment plan, and complete 30 semester units within each academic year, including summer.

Eligible students must commit to the following:

- Complete a California Promise advising workshop every semester.
- Meet with a Pledge Advisor each semester and agree upon appropriate courses in which to register.
- Remain in the admitted major, unless prior approval has been obtained from the Pledge Advisor.
- Register for classes during the assigned California Promise priority registration window (within the registration appointment) and pay fees by the required deadlines.
- Maintain good academic standing, including GPA of 2.0 or above for both Cal State East Bay and overall.
- Successfully complete 30 semester units towards the degree each academic year (including Winter and/or Summer sessions). *Degree applicable units include baccalaureate level courses that count towards outstanding major and/or degree requirements, such as general education and university requirements.*
- Complete the degree program within two years, beginning with the first term of enrollment at Cal State East Bay.

Interested students entering Cal State East Bay should visit <http://www.csueastbay.edu/admissions/transfer-admission-reqs/california-promise.html>. For CSU-wide information, visit: www2.calstate.edu/apply/freshman/getting_into_the_csu/pages/the-california-promise-program.aspx.

Enrollment Policies for International Students

Undergraduate International Students

The U.S. Custom and Immigration Enforcement requires students on nonimmigrant F1 and J1 visas to pursue a full course of study in a specific program. Therefore undergraduate students are expected to complete a minimum of 12 units per semester for two consecutive semesters.

Note: Enrollment in courses through Open University in University Extension may not count for visa certification purposes.

Non-matriculated Enrollment

Most courses taught by regular Cal State East Bay faculty are available to students through Open University on a space-available basis. To enroll in an Open University course, applicants must complete an online Open University application form each term they wish to attend.

Visit the Open University website for more information and to apply online and view application deadlines. Late applications are not accepted.

High School Students: Enrollment in Special Programs

Dual Matriculation

High school students may be considered for enrollment in certain special programs if recommended by the principal and the appropriate campus department chair and if preparation is equivalent to that required of eligible California high school graduates. Such admission is only for a given specific program and does not constitute a right to continued enrollment. This is called "dual matriculation". Information pertaining to dual matriculation is available in the Student Enrollment Information Center on the first floor of the Student Services and Administration Building. Under these programs, eligible high school students may enroll for university credit if they satisfy the requirements for admission to this status.

Intrasystem & Intersystem Enrollment Programs

Fully matriculated students enrolled at any CSU campus have access to courses at other CSU campuses on a space available basis unless those campuses/programs are impacted. This access is offered without students being required to be admitted formally to the host campus and in most cases without paying additional fees. Students should consult their home campus academic advisors to determine how such courses may apply to their specific degree programs before enrolling at the host campus.

There are two programs for enrollment within the CSU and one for enrollment between CSU and the University of California or California Community Colleges. Additional information about these programs is available from the Office of the Registrar.

CSU Fully Online Courses

Matriculated students in good standing may request enrollment in one course per term, offered by a CSU host campus. Enrollment requests will be granted based on available space, as well as completion of any stated pre-requisites. Credit earned at the host campus is electronically reported to the student's home campus to be included on the student's transcript at the home campus.

CSU Visitor Enrollment

Matriculated students in good standing enrolled at one CSU campus may enroll at another CSU campus for one term. Credit earned at the host campus is reported at the student's request to the home campus to be included on the student's transcript at the home campus.

Intersystem Cross-Enrollment

Matriculated CSU, UC, or community college students may enroll on a "space available" basis for one course per term at another CSU, UC, or community college and request that a transcript of record be sent to the home campus.

Undergraduate Academic Course Load

For financial aid and reporting purposes, the minimum academic course load for full-time undergraduate students is 12 units per semester. However, an average of 15 units per semester (30 units per year) is required to graduate in four years.

Undergraduate Status: Full or Part-time

The following classifications apply to students enrolled in the fall and spring semesters (not University Extension non-degree programs and shorter sessions including summer):

1. Full-time undergraduate students (including students seeking a second baccalaureate) are those enrolled in 12 or more units in a regular semester. Part-time undergraduate students are those enrolled in fewer than 12 units.
 - o *Note: that in order to graduate in 4 years or 8 semesters, students must complete an average of 15 units per semester.*
2. Full-time enrollment for veterans (or dependents of disabled or deceased veterans), or reservists under Chapter 30, 31, 33, 34, 35, or 106 is 12 or more units, according to V.A. regulations. Each semester, veterans and eligible dependents should consult the Veteran Affairs Coordinator before the first day of classes and submit their forms requesting certification of enrollment for V.A. benefits. More information can be found on the Veteran Student Admission page.

Enrollment & Degree Progress

Undergraduates who apply for the following must enroll in courses that satisfy their degree program:

- Veterans' Benefits (or for benefits as dependents of disabled or deceased veterans),
- International students wishing USCIS certification,
- Student athletes wishing to compete in intercollegiate sports, and
- Students on most types of financial aid.

California Resident Freshmen Early Start Program

The Early Start Program serves CSU admitted freshmen who have not demonstrated proficiency in written communication and/or mathematics/quantitative reasoning as determined by systemwide

placement standards. Participation in the Early Start Program is required for students needing skills development in these areas; students will be expected to enroll in a written communication course or a mathematics/quantitative reasoning course (but not both) during the summer period prior to the start of the fall term. Students required to participate in the Early Start Program may choose to enroll at any CSU campus; the earned baccalaureate credit will be transferred seamlessly to the student's destination campus.

The goals of the Early Start Program are to:

- Better prepare students in written communication and mathematics/quantitative reasoning before the start of the fall semester of the freshman year;
- Add an important and timely assessment tool in preparing students for college; and
- Improve the opportunity for students to successfully complete their college degrees.

Add/Drop Period

Students may add and drop classes during the Add/Drop period. Beginning the sixth (6th) instructional day of the semester, consent of the instructor and department offering the course is also required for enrollment. If students complete the enrollment process during the Add/Drop period, they are assessed a nonrefundable Late Registration fee. Students may drop a course during the Add/Drop period without it appearing on their permanent record. Courses dropped on or after the first day of the term may result in prorated charges.

Note: Deadlines for shorter sessions (Winter, Summer, and shorter sessions within the semester) may be different and students should consult the "Important Dates" page of the University website.

Adding Courses

Students may add courses during their enrollment appointment, open enrollment, and the Add/Drop period either by:

- (a) using *MyCSUEB*, or
- (b) coordinating their enrollment with the appropriate academic department office for Independent Study, Individual Study, Project, and/or Thesis courses.

Students have the right to add classes during these enrollment periods, subject to their having successfully completed the prerequisites (coursework and/or consent of instructor as stated in the Catalog) and to the availability of sufficient capacity in the class. Beginning the sixth (6th) instructional day of the semester until the end of the Add/Drop period, students may only add courses with the consent of the instructor and academic department offering the course.

Dropping Courses

The word "drop" refers to official deletion of a course from a student's record. If students cannot continue enrollment in a course for which they enrolled in for that particular term, they must officially drop the course using *MyCSUEB*. Students may drop courses through the end of the Add/Drop period without the

course appearing on their permanent record. After the Add/Drop period, students may only withdraw from courses.

Departments offering a class may drop students if they do not attend the first class meeting or if they have not met the course prerequisites that are published in the University Catalog. Some departments may notify students as a matter of courtesy when they are being dropped, but other departments may not. There is no University-wide policy and this determination will vary by department. Students should not assume that they will be dropped automatically if they do not attend class, and are responsible for dropping courses in *MyCSUEB* by the end of the Add/Drop period. Students are also responsible for checking their course enrollment to make sure it is accurate.

Schedule Changes

Students may add, drop, and waitlist courses using *MyCSUEB* during the designated enrollment periods. Beginning the sixth (6th) instructional day of the semester, consent of the instructor and department offering the course is also required for enrollment. Dropping courses may be done online through *MyCSUEB* until the tenth (10th) instructional day of the semester, and students may change their grade type until the fifteenth (15th) instructional day of the semester.

If students are on a waitlist and wish to add a class, it is important that they attend the first class meeting. **See "Registering for Classes" on the University's website for specific instructions.**

Note: Deadlines for shorter sessions (Winter, Summer, and shorter sessions within the semester) may be different and students should consult the "Important Dates" page of the University website.

Withdrawing from a Course(s)

Students cannot "drop" after the end of the Add/Drop period, but they can "withdraw" until the twelfth (12th) week of the semester. The word "withdrawal" refers to official termination of enrollment in a class after the Add/Drop period. Students can withdraw from a class only for serious health or personal problems beyond their control. If they withdraw from a class, the class will appear on their record with a grade of "W." The administrative symbol "W" indicates that a student was permitted to withdraw from a course after the Add/Drop period with the approval of the instructor and appropriate campus officials. This designation carries no connotation of quality of student performance and is not used in calculating grade point average. Beginning the third week of classes, students will be permitted to withdraw from courses by printing the downloadable "Withdrawal" form from the University website under "current students". On the form, state the reason, obtain approvals of the instructor and department and return the completed form to the Enrollment Information Center or the Academic Services Office. The Concord Campus Academic Services may approve withdrawals for courses offered at Concord.

Undergraduate students may withdraw from no more than 18 semester units of coursework in their undergraduate career, including any courses taken in CSUEB Open University. When serious illness or accidents are documented and used as a basis for approval of withdrawal from all classes in the term, the units will not count against the 18 unit maximum allowed. Students who exceed the maximum units allowed may petition for a waiver of the requirement to allow for additional withdrawals.

Withdrawals are normally not permitted after the twelfth (12th) week of the semester, particularly for individual courses. Students who have completed acceptable work up to that point and cannot continue should normally be assigned an "I" (Incomplete) grade. If students have serious and compelling nonacademic reasons for withdrawal from a class after the twelfth (12th) week, they must write a statement outlining the reasons for the withdrawal and obtain written documentation of the circumstances from an impartial third party, such as a doctor or lawyer. The document should be an original document (not a copy) on letterhead; then, the student must obtain the signatures of the instructor, department chair, and college dean, and finally submit the form and documentation to the Student Enrollment and Information Center, 1st Floor, Student Services and Administration Building on the Hayward Hills Campus, or the Concord Campus Academic Services Office for review by the Registration and Records Appeals Committee. Approval of the withdrawal is not automatic. *Note: Withdrawal from any class in which the final examination was taken and/or the student has been assigned an earned grade, is not permitted regardless of circumstances or documentation. Withdrawals will not be processed if students have taken the final examination for the course or have satisfied all the requirements for the course.*

A withdrawal may not automatically result in a fee refund. Students should consult with Student Financial Services for any questions about fee refunds related to withdrawing from classes.

If students enroll for a course and fail to attend, but do not officially drop or withdraw, they will receive an appropriate administrative grade indicating failure ("WU" or "NC" depending on the grading pattern in which they enrolled). Refer to the *Grading & Academic Standards* chapter of this catalog.

Note: Deadlines for all withdrawals can be found under "Important Dates" on the University website. The deadline for withdrawing from a shorter session, including summer or winter, is different than the semester deadline and students should consult the website for all deadline dates.

Cancellation of Registration or Withdrawal from the University

All Students

Students who find it necessary to cancel their registration or to withdraw from all classes after enrolling for any academic term *are required* to follow the University's official withdrawal procedures. Failure to follow formal University procedures may result in an obligation to pay fees as well as the assignment of failing grades in all courses and the need to apply for readmission before being permitted to enroll in another academic term. Information on canceling registration and withdrawal procedures is available from the Enrollment Information Center, located on the first floor of the Student Services and Administration Building.

Students who fail to fulfill enrollment or matriculation requirements, or otherwise fail to adhere to academic or Cal State East Bay regulations, are subject to immediate administrative action which may result in the student being placed on Administrative Probation, or having enrollment for that term canceled.

Note: Matriculated students who have not enrolled in classes at Cal State East Bay for two consecutive semesters (not including summer or winter sessions), and do not enroll in the third consecutive semester, will be discontinued and will be required to submit a new application to the University for readmission.

Add/Drop Period

Submitting a "Withdrawal" form is not required if students find it necessary to drop all courses in which they enrolled in using *MyCSUEB* during the Add/Drop period. For refund information, refer to the *Refund of Fees* section in the *Fees & Financial Services* chapter.

If students find it necessary to withdraw from the University after the Add/Drop period has ended (during the third through the twelfth week of instruction), they must complete a "Withdrawal" form, obtain approval signatures from each instructor and department chair, and return it to the Enrollment Information Center or the Academic Services Office. Course withdrawals are handled as noted in the section above. A semester from which a student withdraws is not counted as an interruption of enrollment for matriculated student status. Even if approved, a late withdrawal petition does not result in a fee refund. Students should consult with Student Financial Services for any questions about fee refunds related to withdrawing from classes.

Financial Aid Recipients

Students who receive financial aid funds *must consult* with a financial aid counselor in the Financial Aid Office prior to withdrawing from the University regarding any required return or repayment of grant or loan assistance received for that academic term or payment period. Students who have received financial aid and withdraw from the institution during the academic term or payment period may need to return or repay some or all of the funds received, which may result in a debt owed to the institution.

Fee Refunds

A withdrawal may not automatically result in a fee refund. Students should consult with Student Financial Services for any questions about fee refunds related to withdrawing from classes.

Special Registration Petitions

Some courses may require a "Special Registration Petition" prior to enrollment that is **available from the department offering the course**. Typically, courses that will require special registration petitions are:

- Independent Study,
- Individual Study,
- Capstone Project,
- Departmental Thesis, or
- University Thesis.

Cross-registration with Other Bay Area Two-year & Four-year Institutions

Programs have also been established to permit students from Cal State East Bay and those from the following campuses to take coursework that is not available at their home campus at another school:

- Cañada College,
- Chabot College,

- College of Alameda,
- Contra Costa College,
- Diablo Valley College,
- Holy Names University,
- John F. Kennedy University,
- Laney College,
- Las Positas College,
- Los Medanos College,
- Merritt College,
- Mills College,
- Ohlone College,
- Solano College,
- St. Mary's College, and
- U.C. Berkeley.

Contact the counseling center or registrar at the host campus (or the Office of the Registrar at Cal State East Bay) for information on eligibility requirements, limitations and other privileges or restrictions.

Cross-registration Program with University of California, Berkeley (UCB)

The purpose of this program is to increase a student's educational opportunities by maximizing the use of existing programs and courses available in the East Bay region. The following conditions apply:

No course of instruction available at Cal State East Bay may be taken in the other system. Enrollment is limited to one course per semester.

Students may seek to enroll in a course offered at UCB upon the recommendation of their academic advisor and department chair. These advisors should insure the completion of any prerequisites before application is made.

Note: Forms are available from the University website under Student Records Forms.

Students may seek to enroll in a course offered at UCB only with the permission of the course instructor, and the approval of the appropriate department chair and college dean. Each university gives first registration priority to its own students; therefore, concurrent enrollment may not be available in courses with limited spaces. A Cal State East Bay student should return the completed form and card to 120 Sproul Hall at UCB.

Students must be in good standing, be matriculated in a degree program (undergraduate or graduate) and have a full-time schedule (12 semester units for undergraduates and 8 units of graduate level courses for graduate status) at Cal State East Bay in order to participate in the program.

Cross-registration with UCB is not permitted during a student's first term of enrollment at Cal State East Bay.

Each campus has appointed a coordinator of the cooperative program who verifies the satisfaction of these conditions for each prospective participating student. The Office of the Registrar coordinates the program at Cal State East Bay.

No additional costs are charged to the student at Cal State East Bay. However, they will be billed the Cal State East Bay rates for the total academic load in the combined registrations. Because of the interval involved in sending transcripts, there will be a time lag in the appearance of grades on Cal State East Bay's permanent records.

Cross-registration will be cancelled if the student becomes ineligible for participation.

Planned Educational Leave

Students may request a Planned Educational Leave to pursue educationally related activities which will enhance the prospect of successful completion of their academic program, but which do not require enrollment at Cal State East Bay or any other institution of higher education. Students who are unable to enroll due to compulsory military service or because of a documented disability or because of pregnancy may apply for a Planned Educational Leave. Students requesting a leave should be in good academic standing in a program leading to a degree.

A Planned Educational Leave may be for a period of up to a total of two years (four consecutive semesters, not including summer session) if students are enrolled in a program leading to a degree. The leave must be approved by their faculty advisor or department chair and the Office of the Registrar. If approved, students will retain graduation catalog rights and may enroll as a matriculated student, provided they return and enroll in the same major for the semester indicated. Failure to return from a Planned Educational Leave by the semester indicated means loss of catalog rights and students will be required to apply for readmission to the University and pay an application fee. The Planned Educational Leave form is available on the University website under Student Records Forms.

Undergraduates Petitioning for Graduate Credit

Undergraduate students may apply graduate courses taken during their final term of undergraduate attendance to a Cal State East Bay master's degree program. Students can take up to 9 semester units of courses during their final undergraduate semester (no earlier) and apply them to their master's degree if they:

- have at least a 2.00 grade point average at Cal State East Bay;
- do not need the units or grade points to complete their baccalaureate degree;
- do not need the units for residence credit in their master's degree; and
- obtain prior permission from the Department Chair of the graduate program in which they wish to apply the units.

While an undergraduate, students should obtain and complete a Petition for Graduate Credit form, and obtain the signed approval of the graduate department chair to apply the courses to their master's degree. The form should be filed with the Registrar's Office.

Students cannot be matriculated in a baccalaureate degree and a master's degree program at the same time. So, the units earned in the last undergraduate semester that are applied to the master's degree are not residence credit in the graduate degree. Most Cal State East Bay master's degrees require 30 units, 21 of which must be in residence. If a student takes the maximum 9 units for their graduate degree in the last undergraduate semester, they will have used up their non-residence degree credit and cannot use any transfer, University Extension, or Open University units for their master's degree.

Students who wish to start working on a basic Teaching Credential (500-level courses in Teacher Education) before completing their baccalaureate must be in the Fast-Track Teacher Preparation Program in order to have the credential units applied to their post-baccalaureate requirements. Students who are not in the Fast-Track Teacher Preparation Program may submit a Petition for Graduate Credit to the Office of the Registrar to receive post-baccalaureate credit. The Petition for Graduate Credit must be received prior to the posting of a student's degree, and can only be approved for courses completed during a student's final term before graduation. Once a degree is awarded, no changes can be made to give post-baccalaureate credit to courses taken in a baccalaureate program.

Fees & Financial Services

Fees

- Financial & Cashier Services
- Schedule of Tuition & Fees
- Additional Fees Payable Upon Service
- Miscellaneous Course Fees
- University Extension (Continuing Education) Fees
- Average Support Cost Per FT Equivalent Student

Financial Aid

- Financial Aid Services
- Availability of Institutional & Financial Assistance

Other Services

- Acceptable Methods of Payment
- Fee Waivers & Exemptions
- Refund Regulations
- Refunds of Mandatory Fees (Including Nonresident Tuition)
- Fees & Debts Owed to the Institution
- Procedure for Establishing or Abolishment of Campus-Based Mandatory Fees

Financial & Cashier Services

A variety of financial services are offered to students and staff, including cashier services, the sale of parking decals, and the processing of registration payments. The student financial services offices also assist students with their financial aid and scholarship payment disbursement questions, and accept authorizations to bill third party sponsors for student registration fees. The main office of Accounting and Fiscal Services is located in the Student Services and Administration building (SA), 2nd Floor. The Cashier's Office is located in the SA, 1st Floor and is open weekdays from 8:30 a.m. to 5:00 p.m., except Friday, the hours are 9:00 a.m. to 4:30 p.m. There is a secured drop box located in the front of the Cashier's Office for those wishing to drop off payments after normal business hours. The Cashier's Office accepts checks, cash and money orders only.

Note: Credit cards are NOT accepted at the Cashier's Office; however, students may pay their registration fees online with SmartPay using their American Express, Discover, Visa, or MasterCard with a 2.75% convenience fee. Students may also choose to pay with an electronic check free of charge. Consult MyCSUEB for additional payment information.

Undergraduate Schedule of Tuition and Fees 2018-2019

The CSU makes every effort to keep student costs to a minimum. Tuition and fees listed in published schedules or student accounts may need to be increased when public funding is inadequate. Therefore, CSU reserves the right, even after tuition or fees are initially charged or initial payments are made, to increase or modify any listed tuition or fees. All listed fees, other than mandatory systemwide tuition, are subject to change without notice, until the date when instruction for a particular semester or quarter has begun. All CSU-listed tuition and fees should be regarded as **estimates** that are subject to change upon approval by the Board of Trustees, the chancellor or the presidents, as appropriate. Changes in mandatory systemwide tuition will be made in accordance with the requirements of the Working Families Student Fee Transparency and Accountability Act (Sections 66028 - 66028.6 of the Education Code).

The following reflects applicable systemwide tuition and fees for both semester and quarter campuses that were authorized by the Board of Trustees at the March 2017 meeting. These rates are subject to change.

Note: Students who already hold a bachelor's degree, regardless of their current educational objective, will pay the fees listed in the Graduate Admission & Fees chapter.

All Students:

Application fee (nonrefundable), payable online at the time of application via credit card, e-check or PayPal: \$55

Students are charged campus fees in addition to tuition and systemwide fees. Information on campus fees are also listed below or contact Financial Services for more information.

Undergraduate Tuition & Fees, effective 2018-2019 ^{1, 2}

	0 to 6.0 Units Per Semester	6.1 or More Units Per Semester
Tuition Fee*	\$1,665	\$2,871
Student Body Fee	64.50	64.50
Facilities Fee	3.00	3.00
University Union Fee	82.50	82.50
University Union Recreational Fee	97.50	97.50
Instructionally Related Activities Fee	12.00	12.00
Health Services Fee	187.50	187.50

Athletics Fee	52.50	52.50
Academic Excellence Fee	120.00	120.00
Photo I.D. (semester fee)	1.50	1.50
Total	\$2,286	\$3,492

1Fee adjustments subject to the policies established in Executive Order 661.

2Disclaimer - Cost of Collection: Unpaid Tuition and Fees. Students are subject to normal collection actions for unpaid debts including: assessment of late registration and past due fees, withholding of University services, withholding of credit for and disenrollment from some or all classes, referral of the debt to a collection agency and/or credit reporting agency, intercept of amounts due them from the State of California and/or legal action. They are obligated to pay all costs of collection, including attorney fees, collection agency fees and court costs (Please see Title 5, California Code of Regulations, Sections 42380 and 42381).

** Note: Undergraduate Tuition for the academic year (two semesters) is \$4,422 for 0 to 6.0 units per semester and \$6,834 for 6.1 or more units per semester. The total fees paid per semester will be determined by the number of units taken, including those in excess of fifteen.*

Nonresident Students (U.S. and Foreign)

Nonresident Tuition of **\$396 is paid on a per unit basis** (in addition to basic tuition and systemwide fees charged all students) for all campuses. The total nonresident tuition paid per term will be determined by the number of units taken.

Note: Mandatory systemwide tuition is waived for those individuals who qualify for such exemption under the provisions of the California Education Code (see section on fee waivers).

Credit Cards:

Visa, MasterCard, American Express, Discover and International Bank Transfers may be used for payment of student tuition and fees but may be subject to a non-refundable credit card processing fee.

Additional Fees Payable Upon Service

Additional Fees Payable when Service is Rendered:

Fee	Amount USD
Late registration fee	\$38

Failure to meet administratively-required time limit	\$20
Graduation and diploma fee *	\$55
Lost ID card fee	\$10
Returned check	\$25
Parking fee per semester: Auto	\$195
Parking fee per semester: Motorcycle	\$98
Official transcript of record (single)	\$4
Additional transcripts <i>prepared at same time</i> up to ten (2-10)	\$2 (each)
Additional transcripts <i>prepared at same time</i> after the first ten (11+)	\$1 (each)
Unofficial transcript of record	\$2 (each)
Items lost or broken	COST
Test fees	COST
Laboratory and/or activity fee	COST
Certificate program fee	\$4
Writing Skills Test (WST-Paper Version)	\$25
Writing Skills Test - Limited Administration (WST-Computer Version)	\$50
Miscellaneous Course fee	\$50-500

* Note: The graduation fee does NOT include the cost of cap and gown rental.

Miscellaneous Course Fees

Students may have to pay a miscellaneous course fee for instructional materials and field trips for some courses. If courses have such fees, it is noted in their course descriptions in this catalog. Also refer to the *MyCSUEB* for additional information and specific fee schedules for these courses.

Note: CSU reserves the right, even after initial fee payments are made, to increase or modify any listed fees, without notice, until the date when instruction for a particular semester has begun. All CSU listed fees should be regarded as estimates that are subject to change upon approval by The Board of Trustees.

University Extension (Continuing Education) Fees

Nonresident Tuition is not charged for Continuing Education or Open University courses. Fees for Cal State East Bay Continuing Education courses vary, depending on the type of course selected. Visit the Continuing Education website at <http://www.ce.csueastbay.edu> for the latest information on fees for specific courses, as well as detailed descriptions of programs and courses.

Average Support Cost Per Full-time Equivalent Student & Sources of Funds

The total support cost per full-time equivalent student (FTES) includes the expenditures for current operations, including payments made to students in the form of financial aid, and all fully reimbursed programs contained in state appropriations. The average support cost is determined by dividing the total cost by the number of FTES. The total CSU 2017/18 budget amounts were \$3,390,564,000 from state General Fund (GF) appropriations and before adding \$39.3 million CalPERS retirement adjustment, \$2,477,015,000 from gross tuition revenue and \$594,397,000 from other fee revenues for a total of \$6,461,976,000. The 2017/18 resident FTES target is 364,131 and the nonresident FTES based on past-year actual is 24,398 for a total of 388,529 FTES. The GF appropriation is applicable to resident students only whereas fee revenues are collected from resident and nonresident students. FTES is determined by dividing the total academic student load (e.g. 15 units per semester) (the figure used here to define a full-time student's academic load).

2017/18	Amount	Average Cost per FTES	Percentage
State Appropriation (GF) ¹	3,390,564,000	9,311	54.1%
Gross Tuition Revenue ²	2,477,015,000	6,375	37.0%
Other Fees Revenue ²	594,397,000	1,530	8.9%

Total Support Cost	6,461,976,000	17,217	100.0%

¹Represents state GF appropriation in the Budget Act of 2017/18; GF is divisible by resident students only (364,131 FTES).

²Represents CSU Operating Fund, gross tuition and other fees revenue amounts submitted in campus August 2017/18 final budgets. Revenues are divisible by resident and nonresident students (388,529 FTES).

The 2017/18 average support cost per FTES based on GF appropriation and tuition revenue only is \$15,687 and when including all three sources as indicated below is \$17,217, which includes all fee revenue (e.g. tuition, application fees, and other campus mandatory fees) in the CSU Operating Fund. Of this amount, the average tuition and other fee revenue per FTES is \$7,905.

The average CSU 2017/18 academic year, resident, undergraduate student basic tuition and other mandatory fees required to apply to, enroll in, or attend the university is \$7,216 (\$5,742 tuition fee plus \$1,474 average campus-based fees). However, the costs paid by individual students will vary depending on campus, program, and whether a student is part-time, full-time, resident or nonresident.

Financial Aid Services

The Financial Aid Services department coordinates all University-administered financial aid programs. Students may obtain financial aid information and assistance in the Student Enrollment Information Center (1st floor of Student Services and Administration Building).

Financial Aid Applications

The Free Application for Federal Student Aid (FAFSA) is available on the web at: www.fafsa.ed.gov. Students are strongly encouraged to complete the FAFSA each year by the March 2 priority filing date. The FAFSA helps determine their eligibility for grants, Work-Study, and loans. Eligibility for limited funds is determined by financial need and FAFSA priority filing. California residents may also apply for a Cal Grant by completing the FAFSA and asking their school to submit their grade point average (GPA) to the California Student Aid Commission by March 2 for high school/college students, and September 2 for California Community College transfer students. AB540 students may apply for California State Aid, including Cal Grants, by completing the Dream Application. Information on the Dream Act and a link to the Dream Application may be found at: [Dream Act and Application](#).

Note: The federal Military Selective Service Act requires most males between the ages of 18 and 25, who reside in the United States, to register with the Selective Service System. Those who are subject to the Act and fail to register are ineligible to receive all student aid funded by the federal student aid, state sources, or a public post-secondary institution. See "Military Selective Service Act" in the Military & Veterans Information & Services chapter for additional information.

Academic Progress

Financial aid recipients are required to meet academic and degree progress standards set forth in the Satisfactory Academic Progress Policy. The Financial Aid Office measures academic progress at the end of each term after grades are finalized.

For more information about academic progress, see the Satisfactory Academic Progress (SAP) or Financial Aid websites.

Loans and Grants

Students who demonstrate financial aid need may be eligible for loans or grants. They will be considered for one or more of the following programs:

- Pell Grant,
- Federal Supplemental Educational Opportunity Grant,
- State University Grant,
- Cal Grant A or B,
- Work-Study,
- Perkins Loan,
- Direct Subsidized Loan,
- Parent PLUS Loan, and
- Graduate PLUS Loan.

Students may qualify for Middle Class Scholarship, Unsubsidized Direct Loan, Parent PLUS Loan, and Teach Grant without demonstrating need. Graduate Students are ineligible for Subsidized Direct Loans.

Work-Study Program

Work-Study is earned through part-time employment in on-campus and certain off-campus jobs. Federal Work Study (FWS) is a form of financial aid largely provided by federal funding. A student must apply for financial aid each year to become eligible for the award, or to keep working in their current Work Study job. Eligible FWS students earn money by working a limited number of hours per week at a pre-approved FWS site location. Employment may be found on or off campus with employers that have arranged in advance to offer FWS positions to Cal State East Bay students. If they are eligible, Work-Study employment can assist students in meeting their educational expenses without incurring indebtedness. Financial Aid will use the information provided on the student's FAFSA to determine eligibility for Work-Study.

Scholarships

Students may obtain information on scholarship opportunities from Financial Aid and from major departments. Both on and off-campus scholarship information is available on the University's website. Admitted Students may use the new on-line Pioneer Scholarships application to apply for all East Bay scholarships.

Short-Term Loans

Financial Aid and Student Financial Services also administer the University's short-term Emergency Loan Program and the intermediate term Foreign Student Loan Program. Students are not required to apply for financial aid to receive these interest free loans. Emergency Loans may not be used to pay University charges and are usually limited to \$300 with repayment due in 30 days. Non-U.S. citizens may apply for a maximum of \$200 with repayment due within 9 months.

Note: Also see "Fee Waivers for Senior Citizens" under the University website Special Program Registration Procedures - Over Sixty Program.

Students may obtain additional information on eligibility requirements for financial assistance, and the criteria used to distribute aid among eligible applicants who enroll at Cal State East Bay, from the Financial Aid Department.

Availability of Institutional & Financial Assistance Information

Financial Assistance Information

The Office of Financial Aid coordinates financial assistance for students at Cal State East Bay. The following information is available from the Enrollment Information Center in the first floor lobby of the Student Services and Administration building. Students may also call Financial Aid at (510) 885-2784.

- A description of the federal, state, institutional, local, and private student financial assistance programs available to students who enroll at Cal State East Bay;
- For each aid program, a description of procedures and forms by which students apply for assistance, student eligibility requirements, criteria for selecting recipients from the group of eligible applicants, and criteria for determining the amount of a student's award;
- A description of the rights and responsibilities of students receiving financial assistance, including federal Title IV student assistance programs, and criteria for continued student eligibility under each program;
- The satisfactory academic progress standards that students must maintain for the purpose of receiving financial assistance and criteria by which a student who has failed to maintain satisfactory progress may reestablish eligibility for financial assistance;
- The method by which financial assistance disbursements will be made to students and the frequency of those disbursements;
- The way the school provides for Pell-eligible students to obtain or purchase required books and supplies by the seventh day of a payment period and how the student may opt out;
- The terms of any loan received as part of the student's financial aid package, a sample loan repayment schedule, and the necessity for repaying loans;
- The general conditions and terms applicable to any employment provided as part of the student's financial aid package;
- The terms and conditions of the loans students receive under the Direct Loan and Perkins Loan Programs;
- The exit counseling information the school provides and collects for student borrowers; and
- Contact information for campus offices available for disputes concerning federal, institutional and private loans.

Students who receive financial aid funds must consult with the Office of Financial Aid prior to withdrawing from the university regarding any required return or repayment of grant or loan assistance received for that academic term or payment period. Students who have received financial aid and withdraw from the institution during the academic term or payment period may need to return or repay some or all of the funds received, which may result in a debt owed to the institution.

Under the direction of Flo Olney, Student Financial Services Manager (510) 885-3767, the following Cal State East Bay information is available:

- Information concerning the cost of attending is available and includes tuition and fees; the estimated costs of books and supplies; estimates of typical student room, board, and transportation costs; and, if requested, additional costs for specific programs.
- Information concerning the refund policies for the return of unearned tuition and fees or other refundable portions of institutional charges.
- Information concerning policies regarding the return of federal Title IV student assistance funds as required by regulation.

Note: for additional Institutional Assistance Information see the Cal State East Bay at a Glance chapter.

Acceptable Methods of Payment

Credit Cards, Cash, Check

Students may use credit cards, cash, or check for payment of registration fees. See the current *MyCSUEB* for additional information. The following credit cards are accepted:

- American Express,
- Discover,
- Visa, and
- MasterCard.

Installment Payment Plans

Installment Payment Plans have been authorized if students are assessed Nonresident Tuition or Tuition Fees. See the current *MyCSUEB* for additional information about payment plans.

Payment of Special Fees

The Cashier's Office is located at SA 1200 in the lobby of the Student Services and Administration building accepts in-person cash or check payments for all fees due to Cal State East Bay, such as tuition fees, lab, breakage, test, and parking fees (most payments can also be mailed).

Note: For more information and important dates see the Information About Paying Fees page on the University website.

Fee Waivers & Exemptions

The California Education Code provides for the waiver of mandatory systemwide tuition fees as follows:

Section 66025.3 -

Dependent eligible to receive assistance under Article 2 of Chapter 4 of Division 4 of the Military and Veterans Code; child of any veteran of the United States military who has a service-connected disability, has been killed in service, or has died of a service-connected disability, and meets specified income provisions; dependent, or surviving spouse who has not remarried of any member of the California National Guard who, in the line of duty, and while in the active service of the state, was killed, died of a disability resulting from an event that occurred while in the active service of the state, or is permanently disabled as a result of an event that occurred while in the active service of the state; and undergraduate student who is a recipient of a Medal of Honor, or undergraduate student who is a child of a recipient of a Medal of Honor who is no more than 27 years old, meets the income restriction and California residency requirement. The waiver of tuition or fees under this section applies only to a person who is determined to be a resident of California pursuant to Chapter 1 (commencing with Section 68000) of Part 41.

Section 66602 -

A qualifying student from the California State University who is appointed by the Governor to serve as Trustee of the California State University for the duration of his or her term of office.

Section 68120 -

Surviving spouse or child of a deceased California resident who was employed by a public agency, or was a contractor or an employee of a contractor, performing service for a public agency, and was killed in the performance of his/her principal duties of active law enforcement or fire suppression and prevention duties (referred to as Alan Pattee Scholarships). A person who qualifies for the waiver under this section as a surviving child of a contractor or of an employee of a contractor, who performed services for a public agency must have enrolled as an undergraduate student at the California State University and meets income restriction requirement.

Section 68121 -

A qualifying student enrolled in an undergraduate program who is the surviving dependent of any individual killed in the September 11, 2001, terrorist attacks on the World Trade Center in New York City, the Pentagon building in Washington, D.C., or the crash of United Airlines Flight 93 in southwestern Pennsylvania, if the student meets the financial need requirements set forth in Section 69432.7 for the Cal Grant A Program and either the surviving dependent or the individual killed in the attacks was a resident of California on September 11, 2001.

Note: Students who may qualify for the above benefits should contact the Admissions/Registrar's Office for further information and/or an eligibility determination: email admissions@csueastbay.edu or call (510) 885-3500.

The California Education Code provides for the following nonresident tuition exemptions:

Section 68075.7 -

A nonresident student is exempt from paying nonresident tuition or any other fee that is exclusively applicable to nonresident students if the student (1) resides in California, (2) meets the definition of "covered individual" as defined in either: (A) Section 3679(c)(2)(A) or (B)(ii)(l) of Title 38 of the United

States Code, as that provision read on January 1, 2017; or (B) Section 3679(c)(2)(B)9(i) or (ii)(II) or Title 38 of the United States Code, as that provision read on January 1, 2017; and (3) is eligible for education benefits under either the federal Montgomery GI Bill-Active Duty program or the Post-9/11 GI Bill program as each read on January 1, 2017.

Section 68122 -

A student who is a victim of trafficking, domestic violence, and other serious crimes who has been granted T or U visa status shall be exempt from paying nonresident tuition to the same extent as individuals who are admitted to the United States as refugees under Section 1157 of Title 8 of the United States Code.

Section 68130.5 -

A student, other than a nonimmigrant alien, who is not a resident of California is exempt from paying nonresident tuition if the student meets the requirements of (1) through (4), below:

(1) Satisfaction of the requirements of either subparagraph (A) or subparagraph (B):

(A) A total attendance of, or attainment of credits earned while in California equivalent to, three or more years of full-time attendance or attainment of credits at any of the following:

(i) California high schools.

(ii) California high schools established by the State Board of Education.

(iii) California adult schools established by a county office of education, a unified school district or high school district, or the Department of Corrections and Rehabilitation (subject to the class hours' requirement).

(iv) Campuses of the California Community Colleges (subject to the credit requirements).

(v) A combination of those schools set forth in clauses (i) to (iv), inclusive.

(B) Three or more years of full-time high school coursework, and a total of three or more years of attendance in California elementary schools, California secondary schools, or a combination of California elementary and secondary schools.

(2) Satisfaction of any of the following:

(A) Graduation from a California high school or attainment of the equivalent thereof.

(B) Attainment of an associate degree from a campus of the California Community Colleges.

(C) Fulfillment of the minimum transfer requirements established for the California State University for students transferring from a campus of the California Community Colleges.

(3) Registration as an entering student at, or current enrollment at, an accredited institution of higher education in California not earlier than the fall semester or quarter of the 2001-02 academic year.

(4) In the case of a person without lawful immigration status, the filing of an affidavit with the institution of higher education stating that the student has filed an application to legalize his or her immigration status, or will file an application as soon as he or she is eligible to do so.

Students who may qualify for any of these benefits listed above can contact the following offices:

Office of Admission

(510) 885-3500; FAX: (510) 885-4059; admissions@csueastbay.edu

Graduate Admission

- **For inquiries regarding admission requirements for a specific program contact the academic department directly.**
- **For University Admission requirements questions applicants may e-mail gradadmission@csueastbay.edu**

Office of International Admission

(510) 885-7571; FAX: (510) 885-2787; iao@csueastbay.edu

Refund Regulations

Refund disbursements are not made automatically. If students request a refund check (see below) and it is approved, it will be available in approximately four to six weeks.

If students are eligible for a refund of registration fees (including nonresident tuition) because they withdrew or reduced units before the published deadlines, the amount of the refund will automatically be credited to their University account. If they take no action, the University will leave the balance on their account to apply toward future charges.

A few refund situations are listed below.

- If a student finds it necessary to withdraw officially from Cal State East Bay, they may be eligible for a partial refund of their Registration fees. A Refund Request Form is available at the Cashier's Office on the first floor of Student Service Building or in the Concord Campus Academic Services Lobby.
- If a student withdraws before the first day of instruction for the term, all semester fees, including the Facilities fee, Instructionally Related Activities fee, Associated Students fee, Health Services fee and University Union fee are refunded in full. A \$10.00 processing fee will be assessed if a refund check is generated. Information on procedures and deadlines for canceling registration and dropping classes is available in *MyCSUEB*. The Late Registration fee is not refundable except when due to University error.
- If a student has been called to active military duty and, as a result, finds it necessary to withdraw from Cal State East Bay, they are eligible for a refund of fees. They must file a Refund Request

Form available at the Cashier's Office on the first floor of Student Service Building with a copy of the orders.

- Refunds owed to financial aid recipients will be used to repay the funds from which the student has received financial aid.

Information concerning the refund policy of Cal State East Bay for the return of unearned tuition and fees or other refundable portions of costs is available from the Accounting and Fiscal Services Office, (510) 885-3767.

Refunds of Tuition & Mandatory Fees, Including Nonresident Tuition

Regulations governing the refund of tuition and mandatory fees, including nonresident tuition, for students enrolling at the California State University are included in Section 41802 of Title 5, California Code of Regulations. For purposes of the refund policy, mandatory fees are defined as those systemwide and campus fees that are required to be paid in order to enroll in state-supported academic programs at the CSU. Refunds of fees and tuition charges for self-support, special session and extended education programs or courses at the CSU are governed by a separate policy established by the University, available at <http://www.csueastbay.edu/student-financial-services>

In order to receive a full refund of tuition and mandatory fees, less an administrative charge established by the campus, including nonresident tuition, a student must cancel registration or drop all courses prior to the first day of instruction for the term. Information on procedures and deadlines for canceling registration and dropping classes is available on *MyCSUEB*.

For state-supported semesters, quarters and non-standard terms or courses of four weeks or more, a student who withdraws during the term in accordance with the University's established procedures or drops all courses prior to the campus-designated drop period will receive a refund of tuition and mandatory fees, including nonresident tuition, based on the portion of the term during which the student was enrolled. No student withdrawing after the 60 percent point in the term will be entitled to a refund of any mandatory fees or nonresident tuition.

A student who, within the campus designated drop period and in accordance with campus procedures, drops units resulting in a lower tuition and/or mandatory fee obligation shall be entitled to a refund of applicable tuition and mandatory fees less an administrative charge established by the campus.

For state-supported non-standard terms or courses of less than four weeks, no refunds of tuition and mandatory fees, including nonresident tuition, will be made unless a student cancels registration or drops all classes, in accordance with the University's established procedures and deadlines, prior to the first day of instruction for state-supported non-standard terms or courses or prior to the first meeting for courses of less than four weeks.

Students will also receive a refund of tuition and mandatory fees, including nonresident tuition, under the following circumstances:

- The tuition and fees were assessed or collected in error;
- The course for which the tuition and fees were assessed or collected was cancelled by the University;

- The University makes a delayed decision that the student was not eligible to enroll in the term for which tuition and mandatory fees were assessed and collected and the delayed decision was not due to incomplete or inaccurate information provided by the student; or
- The student was activated for compulsory military service.

Students who are not entitled to a refund as described above may petition the University for a refund demonstrating exceptional circumstances and the chief financial officer of the University or designee may authorize a refund if they determine that the fees and tuition were not earned by the University.

Information concerning any aspect of the refund of fees may be obtained from the Cashier's Office, 1st Floor, Student Services and Administration Building, (510) 885-3865.

Fees & Debts Owed to the Institution

Should a student or former student fail to pay a fee or a debt owed to the institution, including tuition and student charges, the institution may *"withhold permission to register, to use facilities for which a fee is authorized to be charged, to receive services, materials, food or merchandise or any combination of the above from any person owing a debt"* until the debt is paid (see Title 5, California Code of Regulations, Sections 42380 and 42381).

Prospective students who register for courses offered by the University are obligated for the payment of charges and fees associated with registration for those courses. **Note:** *Failure to cancel registration in any course for an academic term prior to the first day of the academic term gives rise to an obligation to pay student charges and fees including any tuition for the reservation of space in the course.*

The institution may withhold permission to register or to receive official transcripts of grades or other services offered by the institution from anyone owing fees or another debt to the institution. The institution may also report the debt to a credit bureau, offset the amount due against any future state tax refunds due the student, refer the debt to an outside collection agency and/or charge the student actual and reasonable collection costs, including reasonable attorney fees if litigation is necessary, in collecting any amount not paid when due.

If a person believes he or she does not owe all or part of an asserted unpaid obligation, that person may contact **Student Financial Services, (510) 885-3767**, or the individual to which the business office may refer the person, will review all pertinent information provided by the person and available to the campus and will advise the person of its conclusions.

Procedure for Establishing or Abolishment of Campus-Based Mandatory Fees

The law governing the California State University provides that specific campus fees defined as mandatory, such as a student association fee and a student center fee, may be established. A student association fee must be established upon a favorable vote of two-thirds of the students voting in an election held for this purpose (Education Code, Section 89300). The campus President may adjust the student association fee only after the fee adjustment has been approved by a majority of students voting in a referendum established for that purpose. The required fee shall be subject to referendum at any time upon the presentation of a petition to the campus President containing the signatures of 10 percent of the

regularly enrolled students at the University. Student association fees support a variety of cultural and recreational programs, childcare centers, and special student support programs. A student center fee may be established only after a fee referendum is held which approves by a two-thirds favorable vote the establishment of the fee (Education Code, Section 89304). Once bonds are issued, authority to set and adjust student center fees is governed by provisions of the State University Revenue Bond Act of 1947, including, but not limited to, Education Code sections 90012, 90027, and 90068.

The process to establish and adjust other campus-based mandatory fees requires consideration by the campus fee advisory committee and a student referendum as established by Executive Order 1102, Section III. The campus President may use alternate consultation mechanisms if he/she determines that a referendum is not the best mechanism to achieve appropriate and meaningful consultation. Results of the referendum and the fee committee review are advisory to the campus President. The President may adjust campus-based mandatory fees but must request the Chancellor to establish a new mandatory fee. The President shall provide to the campus fee advisory committee a report of all campus-based mandatory fees. The campus shall report annually to the Chancellor a complete inventory of all campus-based mandatory fees.

For more information or questions, please contact the Budget Office in the CSU Chancellor's Office at (562) 951-4560.

Requirements, Exams, and Testing

Note: For detailed information regarding General Education (GE) Requirements see the chapter: General Education Program

Requirements

- Baccalaureate Degree Requirements
- University Writing Skills Requirement (UWSR)
- U.S. History & Government Code Requirement
- Additional Undergraduate Requirements
- English Language Requirement
- Undergraduate Certificate Program Requirements
- Music Auditions & Proficiency Exam Requirements

Credit by Examination

- Challenging Courses by Examination
- College Level Examination Program (CLEP)
- Advanced Placement (AP) Exam Credit
- International Baccalaureate (IB) Exam Credit
- Science Equivalency Exam
- Language Placement Exams

Testing Services

- Testing Office
- Testing Requirements

Baccalaureate Degree Requirements

There are three major parts of a baccalaureate degree and eight basic requirements defined in the California Code of Regulations.

Most courses will fall into one of the three parts of the degree:

1. the General Education (GE)/Breadth requirements for basic skills and breadth,
2. the major for depth in one field, and
3. electives, which can shape students' education in directions they choose.

NOTE: Each of these will be described in other sections of this chapter.

These are the eight basic requirements for the baccalaureate degree defined in the California Code of Regulations:

1. Complete a 48 semester-unit program of General Education requirements including a minimum of 9 upper-division (300 or higher) units in GE Areas B6, C4, D4 (see the General Education Program).
2. Complete the local breadth requirements, including a Second Composition course, 3 units of Diversity Overlay, 3 units of Social Justice Overlay, and 3 units of Sustainability Overlay (see the General Education Program).
3. Complete one of the majors described in this catalog.
4. Complete the U.S. history, U.S. Constitution, and California state and local government requirement through coursework or exams (see U.S. History & Government Code Requirements below).
5. Satisfy the University Writing Skills Requirement (UWSR) (see *Graduation Requirements in Writing Proficiency* below).
6. Complete a minimum of 30 semester units in residence enrolled as an admitted student at Cal State East Bay. Up to 24 units taken through Open University and Extension may be counted for residence. Units in residence must include at least 24 upper division units, 12 units in the major, and 9 units of GE. (Units earned at other institutions and units earned through Credit-by-Examination are not residence units.)
7. Complete at least 120 semester units for a B.A. degree, 130 semester units for a B.F.A. degree, or 120 semester units for a B.S. degree. At least 40 of these units must be in upper division courses (courses numbered 300 and above). No more than 40 units can be graded in the Credit/No Credit pattern (CR/NC or A/B/C/NC). No more than 24 units can be in Continuing Education or Open University, and no more than 30 units can be earned credit-by-examination (excepting Advanced Placement).
8. Attain a grade point average of at least 2.00 on a 4.00 scale in all major and university-earned coursework for the degree.

Graduation Requirement in Writing Proficiency (UWSR)

Note: This content has been changed, please see the Errata chapter for information.

In addition to the lower-division General Education requirements for writing, the California State University system requires that *all students* must demonstrate competency in writing skills as a requirement for graduation and to receive a baccalaureate, master's, or doctoral degree. This requirement was implemented system-wide in 1977. Students must satisfy the University Writing Skills Requirement (UWSR) in order to receive a degree from Cal State East Bay unless they are exempt by one of the following criteria:

1. Previously satisfied the UWSR at Cal State East Bay or at another CSU campus, Cal State East Bay will accept official certification of completion if the entire requirement, as specified by that CSU campus, was satisfied and the student was a matriculated student at that campus at the time. On some CSU campuses, the requirement is called the "Graduation Writing Assessment Requirement (GWAR)."
2. Graduated from any one of the CSU campuses; unless it is noted on the transcript that the UWSR (or GWAR) was not satisfied.

3. Received an essay score of 4.5 or higher on the GMAT or GRE or an essay score of 53 or higher on the CBEST.

Undergraduate students are required to begin steps to satisfy the University Writing Skills Requirement after completing 60 semester units. Students who do not enroll in an appropriate course or register to take the Writing Skills Test in their first semester after completing 60 units will have a registration hold placed. The hold will be lifted as the student progresses towards completion of this requirement. *Note: Undergraduate students cannot satisfy this requirement before completing 60 units. For undergraduate students, completion of GE Area A2 and ENGL 200 or another approved second composition course, which are graduation degree requirements, is also required before attempting to satisfy the UWSR.*

To satisfy the requirement at Cal State East Bay, students may do one of the following:

- **Option One:** Register for and pass the Writing Skills Test. See Writing Skills Test (Option One) below.
- **Option Two:** Enroll in and pass a first-tier writing course (ENGL 300 or ENGL 301) and possibly a second-tier course, as well. See Course (Option Two) below.

Writing Skills Test (Option One)

The Writing Skills Test (WST) consists of an analytic essay that requires students to demonstrate that they can think and write critically. A score of Clear Competence (8) is needed to meet the requirement. Students who do not meet receive the Clear Competence designation on the first attempt have only one opportunity to take it again; a score of Clear Competence on the second attempt satisfies the requirement. If both tests are scored as "Limited Competence (6)", they will be required to take the course option (see below). If one or both scores is "Developing Competence (7)", they need only take a second-tier course to satisfy the UWSR (see below).

Note: There is a fee for the WST. See the Fees & Financial Services chapter for more information.

Course (Option Two)

ENGL 300 and ENGL 301 are the first-tier writing courses designed to help students meet the University Writing Skills Requirement. Students who have not attempted the WST or those who have taken the Writing Skills Test (WST) and have received Limited Competence (6) must take either ENGL 300 or ENGL 301 and perhaps a second-tier writing course as well. Students who have not taken the WST twice may take it even when enrolled in a writing skills course. Generally speaking, ENGL 300 is intended for native speakers of English, while ENGL 301 is intended for non-native speakers. Based on end-of-course portfolio evaluation scores, at the end of the first-tier course they will be advised as to their next step, which will involve one of the following: they may be found to have met the UWSR requirement altogether; they may be directed to enroll in a second-tier course; or, they may be directed to repeat the first tier course.

Generally, two second-tier writing courses are regularly offered: ENGL 302 and MKTG 305 . Students who passed the quarter-based equivalents to these courses (ENGL 3003 and MKTG 3495) prior to fall 2000 may not have met the UWSR. For more information on these courses, contact the individual department. Courses approved for second-tier writing are listed here: Second Tier Courses. Students

who pass a second-tier writing course with a C- or better (or "CR" if taken as CR/NC) have satisfied the UWSR.

Students who have taken the first-tier writing course three times consecutively, have not passed, and have a letter of good faith effort from their most recent first-tier instructor may apply to the Dean of Academic Programs and Services for a waiver of the UWSR. If a waiver is granted, the student's permanent record will note that they were allowed to graduate without having satisfied the UWSR. Students who do not satisfy the requirement and do not have a waiver approved will not be allowed to graduate. Contact the Dean of Academic Programs and Services for information on this waiver at (510) 885-2990.

If a student receives a grade of "D+" or "D" in a second-tier writing course (taken Fall Quarter, 2000 or later), they may appeal to the Dean of Academic Programs and Services for a waiver of the UWSR. If a waiver is granted, their permanent record will note that they were allowed to graduate without having satisfied the UWSR. Students who do not satisfy the requirement and do not have a waiver approved will not be allowed to graduate. Contact the Dean of Academic Programs and Services for information on this waiver at (510) 885-2990.

Students who have a verified disability and would like to request accommodations to assist them in satisfying this requirement should contact the Accessibility Services in the Library Complex 2440 or call (510) 885-3868 (phone/TTY).

For more information on meeting the University Writing Skills Requirement, see the Testing Office website or call (510) 885-3661.

American Institutions Requirement

CSU graduates are expected to have knowledge of: significant events in U.S. history; the role of major ethnic and social groups in these events; the political, economic, social, and geographic context of these events; the U.S. Constitution, U.S. political institutions and processes; the rights and obligations of U.S. citizens; the California Constitution; federal-state relations; and California state and local government, and political processes.

Students demonstrate their competence in these fields by either:

- (a) Passing the CLEP exam in History of the United States I or II, CLEP exam in American Government, and the California State and Local Government exam administered by the CSUEB Testing Office.
- (b) Passing the Advanced Placement United States History with a score of 3 or above, the Advanced Placement United States Government and Politics with a score of 3 or above, and the California State and Local Government exam administered by the CSUEB Testing Office.
- (c) Passing two courses which cover all three topics (while some courses cover all 3 topics, students are required to take two courses):

- ECON 101 US Economic History and Institutions
- ES 120 The People's History I
- ES 121 The People's History II
- HIST 110 The United States to 1877
- HIST 111 The United States Since 1877
- POSC 101 American Political Institutions
- POSC 102 Public Policy/California Politics

US-2:

- ECON 101 US Economic History and Institutions
- ES 120 The People's History I
- ES 121 The People's History II
- HIST 110 The United States to 1877
- POSC 101 American Political Institutions

US-3:

- ES 120 The People's History I
- ES 121 The People's History II
- HIST 111 The United States Since 1877
- HIST 382 California and the World
- POSC 102 Public Policy/California Politics

Note: Be aware that receiving credit for any courses applicable to this requirement through a national test such as Advanced Placement, CLEP, or at an out-of-state institution will not satisfy the California state and local government (US-3) part of this requirement. Please contact the History or Political Science Departments for further information. Students who have completed part of the Code Requirement at a California Community College should also consult the corresponding departments to avoid duplicating coursework.

Additional Undergraduate Requirements

Residence Requirements

Complete a minimum of 30 semester units in residence enrolled as an admitted student at Cal State East Bay. Up to 24 units taken through Open University and Continuing Education may be counted for residence. Units in residence must include at least 24 upper division units, 12 units in the major, and 9 units of GE (Units earned at other institutions, and units earned through Credit-by-Examination are not residence units, with the exception of upper division GE units earned at another CSU.)

Unit Requirements

Complete at least 120 semester units for a B.A. degree, 130 semester units for the B.F.A. degree, or 120-125 semester units for the B.S. degree. At least 40 of these units must be in upper division courses (courses numbered 300 and above). No more than 40 units can be graded in the Credit/No Credit pattern (CR/NC or A/B/C/NC). No more than 24 units can be in Continuing Education, Open University, or

correspondence credit, and no more than 30 units can be earned credit-by-examination (excepting Advanced Placement).

Grade Point Average

Attain a grade point average of at least 2.00 on a 4.00 scale in all units attempted at Cal State East Bay, all the units attempted including transfer units, and all units attempted in the major regardless of the department in which they are taught.

Progress to Degree

Students must complete their GE A1, A2, A3, and B4 requirements before reaching junior status. Students must take steps to satisfy the UWSR during their junior year.

English Language Requirement

All undergraduate, post-baccalaureate and graduate applicants whose native language is not English, and who have not attended schools at the secondary level or above for at least three years full time where English is the principal language of instruction, must demonstrate proof of English proficiency.

CSU minimum TOEFL standards are:

- Undergraduate: 61 - INTERNET, 500- PAPER
- Graduate: 80 - INTERNET, 550 - PAPER

Cal State East Bay standards for Undergraduate Students are:

- TOEFL (Test of English as a Foreign Language) score of 525 (or 197 computer-based or 61 Internet-based) or above.
- An overall IELTS (International English Language Testing System) score of 6.0 or above.
- Transferred from a U.S. college with 60 or more semester units with a minimum grade point average of 2.4, and have completed a transfer course in each of the following general education areas with a grade of 2.0 or better: English composition, speech, critical thinking, and mathematics.

Cal State East Bay standards for Graduate Students are:

- An official transcript showing graduation with a bachelor's degree from a U.S. college or university, or an international college or university where English is the principal language of instruction, or an official letter from the college or university certifying that English was the language of instruction.
- A TOEFL (Test of English as a Foreign Language) score of 550 (213 computer-based or 79 Internet-based; 92 for Master's of Science degree in Economics) or above.
- An overall test score from IELTS (International English Language Testing System) exam of 6.5 or above for graduate students. A score of 7 or above is required for international students seeking a Master's of Science degree in Economics.

Some majors may require a higher score.

Note: All test scores must be sent directly from the testing institution. Cal State East Bay's International Admission Office contacts are located at: <http://www.csueastbay.edu/prospective/how-to-apply/international-student-admission>.

Undergraduate Certificate Programs

Undergraduate Certificate Program

A certificate program is a coherent set of academic courses, considerably narrower in scope and objectives than a degree or major, for which students can receive a certificate upon its successful completion. Most certificate programs are oriented toward occupations and/or career skills. A certificate program must contain at least 12 units of courses numbered 300 or above and a minimum of 15 total units. Each certificate program must contain a required core of at least three courses and 9 units. With faculty advice, special certificate programs may be available.

Students must receive a grade of "C" or better in each course applied to the program. Only one course may be taken "CR/NC" in a certificate program not counting courses for which that is the only grading pattern for the course. At least 75% of the units must be taken at Cal State East Bay. (For certificate programs, Cal State East Bay courses may be taken through University Extension or as a regularly admitted and enrolled student.) Students who have already received a major, option, or minor with the same title are not eligible for the certificate. No student is required to complete a certificate program. Completion of a certificate program is recognized by the awarding of a certificate. There is no notation about the program on either a diploma or permanent record. (The courses will be on the student's transcript.) Students may pursue a certificate program before, during, or after their baccalaureate degree. Unlike a minor, a certificate is not part of a degree.

University Extension also offers professional and career development Certificate Programs which may be taken for academic credit or Continuing Education Units (CEUs). For information about the certificate programs offered by University Extension please visit <https://www.ce.csueastbay.edu/>.

Graduate Certificate Programs

For information concerning graduate certificate programs see the Degree Requirements, Policies, & Other Information chapter.

Music Auditions & Proficiency Exam Requirements

Students who declare a major in music must complete examinations and auditions to determine:

- theory placement,
- level of applied study,
- piano proficiency, and
- major performance ensemble.

These examinations are not a substitute for the *Advanced Placement Test in Music* and should not be confused with the Advanced Placement Program. Auditions and examinations are scheduled prior to the first week of each semester. For additional information and specific appointment times, contact the Department of Music, MB 2571, or telephone (510) 885-3135.

Challenging Courses by Examinations

The University recognizes that exceptional students, by reason of special studies or experiences, may already have achieved the objectives of certain courses in the basic program; therefore, students with this background may petition to receive credit in selected courses by special examination. Such an examination is normally from three to six hours in length and may be oral as well as written. Each course may be challenged only once.

Students who wish credit under this plan must enroll for the course during the enrollment period for the units to be earned by the examination. The class being challenged for credit must be listed in the Class Schedule for the particular semester. Obtain a petition for *credit by examination* from the office of the department offering the course, and obtain the permission of both the instructor and department chair. No instructor is obliged to offer credit-by-examination for a course.

The examination must be administered during the first two weeks of the semester. The instructor is responsible for notifying the student of the results of the examination. If the exam is passed with a grade of "C-" or higher, the letter grade and credit by examination will be indicated on the student's permanent record and the results, in grade form, must be submitted to the Office of the Registrar by the end of the fifth week. If the student receives a grade of "D+," "D," or "F" on the examination, the student must either continue taking the course formally or officially withdraw from it within one week after completing the examination. The instructor need not inform the Office of the Registrar of the grades "D+," "D," or "F." Some departments (e.g., Modern Languages and Literatures) only allow their courses to be challenged for a "CR" grade.

No more than 24 semester units of credit obtained by challenging courses may be applied toward the baccalaureate degree. No credit earned by examination may be used to satisfy the requirement of 30 semester units in residence at Cal State East Bay.

Credit for External Examinations

Cal State East Bay grants credit for successfully passing any University-approved examination, subject to the following conditions:

- Credit shall not be awarded for successful passage of any examination if the student previously took that examination during the past semester.
- Credit shall not be awarded when equivalent degree credit has been granted for regular coursework, credit-by evaluation, or other instructional processes such as correspondence.
- Credit shall not be awarded when credit has been granted at a level represented by the examination in question.

- Duplicate credit shall not be awarded where there are overlapping tests, university level work, or both. Where there is partial overlap, the amount of examination credit shall be reduced accordingly.
- The total amount of credit earned on the basis of externally developed tests that may be applied to a baccalaureate degree shall not exceed 30 semester units. **Note: Advanced Placement credit is excluded from this limit.**

College Level Examination Program (CLEP)

This program was created by the College Board to allow students to demonstrate college-level achievement through a series of exams in undergraduate college courses. There are 2900 colleges that grant credit and/or advanced standing for CLEP exams.

California State University East Bay is an open test center and we welcome military personnel. All of the computer-based exams are administered by the Testing Office.

Note: Please see the list of CLEP exams and the Cal State East Bay credit awarded.

Advanced Placement (AP) Exam Credit

See Errata for corrections to this content.

Cal State East Bay grants credit toward its undergraduate degrees for successful completion of examinations of the Advanced Placement Program of the College Board. Students who present scores of 3 or better will be granted up to six semester units (nine quarter units) of college credit. Students need to request that the official score be sent to the Office of Admission.

The AP exams are prepared and offered by the College Board. Unit credit will be granted to those passing the exams, but no letter grade will be assigned or computed in a student's grade point average.

If students have Advanced Placement credit, they must request to the College Board to send their test score(s) to the Office of Admission at Cal State East Bay.

Normally, if Advanced Placement course credits satisfy G.E. Area B, C, and/or D requirements, they will apply to sophomore year general education requirements and not to freshmen clusters because all freshmen benefit from participating in these learning communities. Only if the amount of Advanced Placement credit exceeds what can be applied to the second year will it be applied to freshmen clusters.

Note: Please see the list of exams and credit awarded here.

International Baccalaureate (IB) Exam Credit

Cal State East Bay recognizes the International Baccalaureate (IB) as a challenging college-preparatory program. Four (4) to fifteen (15) units of college credit will be awarded for each IB Higher Level Examination passed with a score of 4, 5, 6, or 7. (No credit will be awarded for IB Subsidiary Level passes.) A copy of the official IB transcript must be supplied to the University when credit is requested.

All credit is granted in terms of existing Cal State East Bay courses with equivalent subject matter determined by the department.

Note: Please see the list of IB exams and the Cal State East Bay credit awarded here.

Science Equivalency Exam

Students who pass the *American Chemistry Society Cooperative Examination in General Chemistry* at or above the 50th percentile will receive 5 units of credit. Contact the Department of Chemistry & Biochemistry, North Science 431, College of Science, Phone: (510) 885-3452, Office Hours: 9-5, M-F.

Language Placement Exams

Placement exams in French and Spanish languages are offered on a continuing basis through the Department of Modern Languages and Literatures. Placement exams for other languages may also be periodically available. Students who have prior language experience but are uncertain of their level of ability (elementary, intermediate, or advanced) are encouraged to consult with a faculty advisor before enrolling in a French or Spanish language course. Placement exams are given only on the recommendation of faculty. For more information, contact the Department of Modern Languages and Literatures in Music Building (MB) 2599 or by phone at (510) 885-3211.

Testing Services

The Testing Office provides a wide variety of services and assistance to students, faculty, staff and the community.

Students should be aware of CSUEB's test requirements. They are:

- The University Writing Skills Requirement (UWSR). One way to satisfy the UWSR is the Writing Skills Test (WST). The WST must be taken by all undergraduate students at the beginning of the junior year, and by all graduate students upon admission to a program unless they elect to meet the requirement through coursework.
- The American Institutions Requirement in U.S. History, the U.S. Constitution, and California State and Local Government may be met by coursework or tests.

Additional information is available on the Testing Office website.

Other tests administered by the Testing Office:

The ACT (American College Test) and the SAT (Scholastic Aptitude Test), one of which is required for entering freshmen. For more information see the Application & Admissions chapter.

The MAT (Miller Analogies Test) is required by some graduate programs.

The CLEP (College Level Examination Program) was created by the College Board to allow students to demonstrate college-level achievement through a series of exams in undergraduate college courses.

The TEAS (Test of Essential Academic Skills) is required for entering in Nursing Program.

The Math Proficiency Assessment (ALEKS PPL) for students who wish to demonstrate proficiency in College Algebra and/or Pre-calculus in order to fulfill pre-requisite requirements for Math 120, 130 or 180.

Additional tests available on the Testing Office website.

ACT - American College Testing Program

CBEST - California Basic Educational Skills Test

CLAD/BCLAD - Bilingual/Cross cultural Language and Academic Development

CLEP - College Level Examination Program

CSET - California Subject Examinations for Teachers

GMAT - Graduate Management Admission Test

GRE - Graduate Record Examinations

IELTS - International English Language Testing System

LSAT - Law School Admission Test

MAT - Miller Analogies Test

MCAT - Medical College Admission Test

PRAXIS - Praxis Test

RICA - Reading Instruction Competence Assessment

SAT - Scholastic Aptitude Tests

SSAT - California Single Subject Assessments for Teachers

TEAS - Test of Essential Academic Skills

TOEFL - Test of English as a Foreign Language

Test Requirements

Due to campus impaction, freshman and transfer applicants who have fewer than 60 semester or 90 quarter units of transferable college credit must submit scores from either the ACT or the SAT of the College Board. Applicants should take the test no later than November or December of the year prior to enrollment. Test scores also are used for advising and placement purposes.

- Sending SAT Scores: School Code: 4011 (California State University, East Bay).

- Sending ACT Scores: School Code: 0154 (California State University, East Bay).

Registration forms and dates for the SAT or ACT are available from school or college counselors or from a CSU campus testing office at: <http://www.csueastbay.edu/testing/>

Or students may contact:

The College Board (SAT)
Registration Unit, Box 6200
New Jersey 08541-6200
(609) 771-7588
www.collegeboard.org

ACT Registration Unit
P.O. Box 414 Princeton
Iowa City, Iowa 52240
(319) 337-1270
www.act.org

Orientation & Advising

Orientation Information

- Welcome New Students & Parents
- Main Campus (Hayward) Orientation
- Concord, International, & Graduate Orientation

Advising Information

Several sources for advising services exist on campus. The Class Schedule (available online at *MyCSUEB*) also includes information regarding advisement services. See also Student Services chapter for additional student services information.

- Consulting with an Advisor
- Academic Advising & Career Education (AACE)
- Program for Accelerated College Education (PACE)
- Credentialing Services (CSSC)
- Educational Opportunity Program (EOP)
- Student Center for Academic Achievement (SCAA)
- Student Services Operation for Success (SSOS)
- Project IMPACT
- EXCEL Program
- Renaissance Scholars Program

Other Assistance

- Career Preparation & Cooperative Education (Pioneer Jobs)
- Change of Academic Objective
- Change of Personal Data Information
- Course Requirement Information (Course Syllabus)
- Faculty Office Hours
- Registration Assistance
- Transcript Requests

Welcome New Students & Parents!

Cal State East Bay offers orientation and advisement programs prior to each semester to introduce new students to the University and to prepare students for a successful journey to graduation. Through special programs planned for freshmen, transfer, international, and graduate students, Orientation provides essential information about degree requirements, campus resources, course registration, and student engagement. During Orientation, new students receive academic advising and learn about the campus from current students, faculty, staff, and administration. Tours of the campus are also available. Student

Life and Leadership Programs recognizes that students enter the University from a variety of backgrounds. As a result, special orientation activities are offered to address the concerns of freshmen, transfer, re-entry, and graduate students, their families and their guests. First time freshmen are required to attend Orientation.

Both the Hayward Hills and Concord campuses offer orientation programs for students and their families. Detailed information about Orientation is mailed to all individuals who have been admitted. Students awaiting final notice of admission may attend Orientation, although attendance does not constitute admission by the University.

Specific information about Orientation is mailed directly to all new students and is included in the Class Schedule every semester. Additional information about orientation programs is available through Student Life and Leadership Programs, New University Union, Room 2011, (510) 885-3872, email: orientation@csueastbay.edu; website: www.csueastbay.edu/orientation.

Main Campus (Hayward) Orientation

Freshman and Transfer Student Orientation

Cal State East Bay invites students and their families to attend Orientation, the key to a successful beginning to the East Bay experience! Freshman, Family, and Transfer Orientation programs are coordinated through *Student Life and Leadership Programs (SLLP)* which is located in the New University Union, Room 2011. If students have any questions about Orientation, please call the SLLP office at: (510) 885-3872 or e-mail: orientation@csueastbay.edu.

More about SLLP located in the Student Services chapter.

Orientation for Concord, International, and Graduate Students

Concord, international, and graduate students may attend other orientations. Contact the following offices to receive information:

- Concord Students: Contact Concord Transfer Center at cctransfercenter@csueastbay.edu or call (925) 602-6399 to find out more about the Concord Campus Orientation.
- International Students: Contact the Center for International Education at cie@csueastbay.edu for available orientation information or visit this website: <http://www.csueastbay.edu/cie/news/orientation.html>
- Graduate Students: Contact the major department about orientation information that may be offered, as not all graduate programs offer orientation.

Consulting with an Advisor

Every student who enters Cal State East Bay is entitled to receive major advising from a faculty member in the department or, if taking an Interdisciplinary Studies major, a committee member in his or her major. Undeclared Students, International Students, as well as most other undergraduate students, receive

advising on General Education and other undergraduate degree requirements from *Academic Advising and Career Education* (AACE). All new students should see their advisors (major advisor and one of the AACE academic counselors) at least once each semester during their first year at Cal State East Bay. Students accepted to East Bay as EOP students should see their EOP counselor instead of an AACE counselor.

Freshmen and sophomores should develop a program with their advisors that will satisfy all requirements (General Education, major, and minor or option if required) for the degree. Undergraduate transfer students are encouraged to attend orientation for their first advising session, or contact Academic Advising and Career Education (AACE) at (510) 885-3621. Once transfer students receive the evaluation of their previous college credit, they should develop with their advisor a complete program of courses leading to the baccalaureate degree. Students should consult with their major and AACE advisors before making changes to their program.

Also see AACE below.

Academic Advising and Career Education (AACE)

AACE provides a full range of excellent academic advising and career counseling services to all undergraduate students. Services include guidance and official updates on students' progress toward completing their general education and graduation requirements (other than major requirements); assistance in developing realistic educational goals and a plan to achieve those goals; explanations of academic policies and procedures; workshops throughout the year; and group advising for new students.

AACE is the academic advising home for undergraduate students who have not yet declared a major at California State East Bay. It offers academic counseling and specialized assistance in exploring, researching and selecting a major based on individual, educational, and career goals. Undeclared students who are placed on academic probation are required to see an AACE academic counselor and/or attend the workshop "Understanding Academic Probation" each semester until good standing is achieved.

In addition, AACE provides academic counseling and support services for all undergraduates who are experiencing academic difficulties such as those on academic probation or those who have been recently disqualified. Students (non-EOP) on academic probation are encouraged to meet with an AACE counselor to discuss strategies for improving their grades and academic standing.

Program for Accelerated College Education (PACE)

Program for Accelerated College Education (PACE) is an innovative program which enables working adult students to make accelerated progress toward a Bachelor of Arts degree with a major in either Human Development and Women's Studies or Liberal Studies. PACE classes are the same as those taken by students pursuing their degrees through the traditional university format. The only difference is the carefully structured course sequence which includes only courses in the evening, weekend and/or online, as well as the dedicated academic advising for PACE students. More detailed information is available at www.csueastbay.edu/pace.

The PACE program is available at both the Hayward and Concord campuses.

Credentialing Student Services Center

The Credential Student Service Center (CSSC), in the College of Education and Allied Studies, provides a one-stop center for all students inquiring about credential program application requirements, procedures and information about applying for or renewing teaching credentials. The CSSC informs and assists students in fulfilling Early Field Experience, meeting program requirements, and maintaining student records. The Credential Student Service Center is located in the Art Education Building Room 235, (510) 885-2272.

Educational Opportunity Program (EOP) & Summer Bridge

Established in 1969, the Educational Opportunity Program (EOP) provides admission and retention support services to low-income and educationally disadvantaged California residents who demonstrate the motivation and potential to succeed in college. EOP identifies and admits students who have the potential to succeed at California State University campuses, but who have not achieved their educational goals because of economic and/or educational background. EOP provides students with the resources, tools and skills to ensure academic and personal success through a variety of academic support services. These services provided by EOP include recruitment, preadmission counseling, special admissions, a *Summer Bridge program* (for entering EOP freshmen), specialized orientation sessions, academic advisement, personal counseling, skill-enhancement workshops, career guidance, peer advising, support groups, social/cultural activities, referral services, and EOP grants for eligible students.

Summer Bridge is a transition program for a select group of newly admitted Educational Opportunity Program (EOP) freshmen students to prepare them for their first year at Cal State East Bay. This intensive college readiness program is designed to provide incoming EOP exception admit freshmen with the following academic, social, and multicultural experiences to smooth their transition from high school to the University's environment:

- Provide classes in English and Mathematics to enhance academic skills
- Acquaint students to the University and its many resources
- Provide workshops in the foundations of college success
- Make new friends
- Meet college professors
- Work with their counselors and peer advisors
- Select Fall semester classes
- Provide cultural and social activities

EOP accepts students who qualify for regular admission, as well as a limited number of students who do not meet regular admission criteria. Only low-income and educationally disadvantaged undergraduate students who need admission assistance and/or support services to succeed at Cal State East Bay are admitted to EOP. Additionally, students must be first generation college students, meet the income eligibility criteria, and either be California residents or AB 540. They must also demonstrate academic potential and motivation to succeed.

To apply for admission to the program, prospective students must complete the online *CALSTATE Apply* Application for Undergraduate Admission and check the appropriate box for EOP services. Once the Cal

State East Bay application is submitted (online), EOP applicants will receive an online EOP link and have access to complete the EOP Applicant Information Form and two EOP recommendation forms. Students must have all three documents submitted in order for their EOP application to be complete.

EOP is a high-demand program which only accepts applications for Fall term from applicants new to the CSU system. Currently enrolled and/or previously enrolled students (not formerly in an EOP CSU program) are not eligible to apply. Applicants who submit all required documents will be reviewed and if selected, will be admitted to EOP. All EOP freshmen receiving exception admission are required to attend the EOP Summer Bridge program as a condition of their admission for Fall term.

For assistance or for further information about EOP and the Summer Bridge program, please visit the EOP Office at Student and Faculty Support (SF) Building 224, or online at www.csueastbay.edu/eop. Prospective applicants can also email eopadmissions@csueastbay.edu or call (510) 885-4683 for more information.

Student Center for Academic Achievement

The Student Center for Academic Achievement (SCAA) provides tutoring and academic support services that are as diverse as Cal State East Bay's students - from peer tutoring, to group supplemental instruction sessions, to online assistance and tutoring. Its FREE services are available to fully matriculated CSUEB students. SCAA programs include:

- Peer Tutoring:
 - One-on-one assistance in Math, Writing, Statistics, Physics, Chemistry, Biology, and Computer Science with a trained peer tutor. The tutor's role is to not do the work for students, but to guide them in the process of learning the concepts in their courses.
- Online Writing Lab:
 - The SCAA Online Writing Lab (OWL) allows CSUEB students to submit papers online and receive writing tutor feedback via email. The SCAA OWL makes every effort to return papers within 72 hours after submission.
- eTutoring:
 - If student need assistance in subjects currently not tutored at the SCAA or cannot come to the SCAA during its regular operating hours, they can log in to the eTutoring platform on the SCAA website to get near-24/7 assistance in courses such as Accounting, Spanish, and Biology. Click here to access eTutoring.
- Writing Associates Program:
 - Trained student tutors are paired with an undergraduate course for one semester to assist students in writing assignments that engage undergraduate students in the entire writing process, including feedback and revision.
- Supplemental Instruction:
 - Provides peer-assisted, collaborate, and active study sessions that improve understanding of subject content, fosters critical thinking, and encourages life-long learning to classes that are considered "at risk" (i.e. large lecture classes). These student sessions are typically led by a student who did well in the course.
- WST Prep Programs:

- The SCAA offers one-time in-person workshops, an online workshop, and an intensive, invite-only WST Boot Camp.

Cal State East Bay students are encouraged to use the Center regularly to improve their academic performance no matter what their skill level or class standing. Students are also encouraged to attend events sponsored by the Center, such as our semester late-night extended hours tutoring event and contests.

The Student Center for Academic Achievement is located in the Upper Mall of the Library. Call (510) 885-3674 or visit its website for information regarding hours, specific tutoring times, workshop dates, event information, or to schedule a one-time appointment.

Student Services Operation for Success

The Student Service Operation for Success (SSOS) is funded by the U.S. Department of Education. The SSOS program began in late 2011 and provides a full range of academic support services, counseling and cultural activities directed at historically underserved Asian American and Pacific Islander students. California State University East Bay is designated as an Asian American Native American Pacific Islander Serving Institution (AANAPISI). SSOS promotes academic success for Asian American and Pacific Islander students in college and helps students be career ready when they graduate. The program's services include: Peer Mentorship, Academic Tutoring, Student Club Sponsorship, Leadership Class, Asian and Pacific Islander themed campus events, Academic Lecture Series, Financial Aid Workshops, Career Readiness Workshops, SSOS Workshops and more.

To apply to the SSOS Program or to find out more about its services, email us at: ssos@csueastbay.edu, call (510) 885-SSOS (7767), or visit their office at SF 202. Additional information can also be found on the website at: <http://www.csueastbay.edu/apass/>

Project IMPACT

Project IMPACT is federally funded TRiO Student Support Services program designed to help eligible students with disabilities succeed in their academic program. The services provided by Project IMPACT are beyond the legally mandated services afforded to students with disabilities by Accessibility Services. By fostering a closely knit community of learners, students are encouraged to become self-directed learners who persist to become academic achievers. Project IMPACT offers selected students individualized services such as:

- Academic Advising
- Subject-specific Tutoring
- Skill-building workshops and Learning Strategies Support
- Individualized Support Plans
- Wellness Counseling
- Support with the Financial Aid process and scholarship information
- Major and Career Exploration
- Assistive Technology training
- Access to the Project IMPACT Private Learning Lab

To be eligible for this program students must be:

1. A matriculated student at Cal State East Bay,
2. An individual with a permanent, documented disability
3. A U.S. Citizen, national or permanent resident,
4. Working toward their first baccalaureate degree
5. Have an academic need for support

For more information, or to apply contact Project IMPACT at (510) 885-2489 or visit:
<http://www.csueastbay.edu/project-impact/>

EXCEL Program

The EXCEL Program (a TRiO Student Support Services program) is funded by the U.S. Department of Education. The program provides a variety of educational services for Cal State East Bay undergraduates who have a demonstrated academic need and who are either low-income or first-generation college or have a disability. The EXCEL Program aims to increase the retention and graduation rates of program participants and to create a supportive environment that encourages academic success.

EXCEL's Academic Life Planning Counselors assist students in developing academic plans to complete their undergraduate degrees and solve academic related problems. They also provide advising in career and goal planning, scholarship assistance, graduate school advising, guidance on balancing academic and personal life, and personal counseling.

The Learning Skills Coordinator offers help in different ways of improving students' learning skills. Assistance includes offering tutoring in basic subjects, diagnosing academic weaknesses in learning and providing tips in test-taking, taking lecture notes, and study skills. During the academic year, EXCEL offers workshops with topics ranging from study skills to graduate schools to internship/jobs to enhance students' knowledge.

To apply to the EXCEL Program or to find out more about its services, call (510) 885-3722 or visit the main office located in the Student and Faculty Support Building (SF) Suite 202. Additional information can also be found on the website at www.csueastbay.edu/excel.

Renaissance Scholars Program

Jointly funded by the University, private foundations, non-profit organizations, and individual donations, the Renaissance Scholars Program provides a variety of educational and support services for current or former foster youth attending Cal State East Bay. The major goals of the program are to enhance the retention and graduation rates of program participants and to create a supportive environment that encourages academic success.

Renaissance Scholars assists students in developing life and leadership skills while providing a wide variety of services including academic, career, and psychological counseling, scholarship opportunities, emergency assistance, priority registration, priority placement in on-campus housing, recognition events, workshops, and field trips.

To qualify for Renaissance Scholars, a student must meet the following criteria:

- Be a current or former foster youth attending Cal State East Bay between the ages of 17-23
- Qualify for "Independent Student Status" under federal financial aid guidelines
- Be a California resident
- Be a graduating high school senior or incoming community college transfer student
- Have a minimum high school GPA of 2.0
- Transfer students must have earned a 2.0 GPA in all transferable coursework
- Demonstrate high motivation and potential

To find out more about the Renaissance Scholars Program browse the website at www.csueastbay.edu/renaissance, email us at renaissance@csueastbay.edu, call (510) 885-4426, or visit the office in the Student and Faculty Support (SF) building, suite 202.

Career Preparation & Cooperative Education

Academic Advising and Career Education (AACE)

In addition to academic advising and counseling, AACE provides information and employment services to assist students in transitioning from the university to graduate school or the professional workplace. These services include career advising and coaching, career exploration and assessment, occupational information, job search assistance, and employment information and referral. The office maintains a comprehensive Career Library with books, periodicals, and online resources pertaining to job search, career guidance, and labor market information.

AACE offers regularly scheduled walk-in hours for resume critiques and career-related questions. Appointments are also available for longer counseling sessions. In addition, career assessments are available in AACE to provide personal assessment and occupational information.

AACE offers workshops throughout the year, at both the Hayward and Concord campuses. Subjects include resume writing, interview techniques, finding an internship, and personal skills assessments, among other topics. Workshop and event schedules are listed on the website and the University's password-protected, on-line database for full-time, part-time, seasonal, internship, and summer jobs available to students.

Employers conduct on-campus interviews for graduating seniors and alumni in the fall and spring semesters. Participants are encouraged to attend an orientation session, either online or in the Center, before registering for interviews.

AACE hosts job fairs throughout the academic year for all undergraduates and graduates to explore career options and employment opportunities. Job fairs feature employers from local, national, and worldwide organizations. AACE also sponsors targeted recruitment events with a specific career or employment focus. All of these are also listed on PioneerJobs.

Cal State East Bay alumni and other working professionals in a variety of career fields provide CSUEB students with valuable career exploration information at "Career Panels" and other events. These offer valuable insight into their career fields and experiences.

AACE's website (www.csueastbay.edu/aace) provides information about its services, workshops and events, major and career information, job listings, resume and interviewing guidelines, and other career resources. Students can search for jobs, obtain information about occupations and career fields, participate in the On-Campus Interview program, and view the calendar of upcoming career workshops and job fairs.

Cooperative Education & Internships

The goal of the Cooperative Education program is to enrich students' educational experience by demonstrating the relevance of university study to the world of work and by providing on-the-job experience that will make interns attractive to future employers after the degree is completed.

Students have completed internships in private businesses and public and non-profit agencies, including I.R.S./C.I.D., Shaw Environmental, P.G. & E., and many more.

Normally, a co-op or intern experience should begin during the sophomore year or later. The work schedule varies depending on the needs of the employer. Some students are offered employment with their co-op employer when they graduate.

To participate in the program, students must have at least a 2.0 GPA, be in good academic standing, and be enrolled as a regular student in the University. To register in an internship course, students must meet the requirements of the Internship program in their own academic department. Internship courses are numbered 398 and 498 for undergraduate students and 698 for graduate students. If an internship course is available, it will be listed in the Class Schedule. Students must complete forms in AACE, as well as register for the course in order to receive credit.

In addition to internship courses, many departments offer regular courses in internships or field practice in which students may enroll to receive academic credit for their work.

Note: International students on F-1 visas who are interested in registering for Co-op, internship, or field practice courses should contact the Center for International Education at (510) 885-2880 to discuss employment authorization for such courses.

Change of Academic Objective

Changing a Major or Objective

Undergraduate students who wish to change their baccalaureate major, declare a minor or concentration must complete the required Change of Major/Minor/Concentration form on the University website under Student Records Forms, and obtain approval from the department. Students with 105 or more units will need permission from the Dean of Academic Programs and Services to change their majors or minors or add a new major or minor.

Note: A change is not official until the form has been signed and returned to the Office of the Registrar. Students are responsible for the major or minor requirements in the Catalog in effect at the time they file the form.

Change of Personal Data Information

Change of Name

For name changes, students may download the Personal Data Change form, complete and submit the form with copies of required government issued documentation (e.g., marriage certificate, driver's license, or passport) to the Enrollment Information Center in the Student Services and Administration Building. Forms may also be mailed to the Office of the Registrar at Cal State East Bay.

Change of Address

Students may change their address online using *MyCSUEB*. Students must officially notify Cal State East Bay of an address change in order to ensure that all official correspondence is sent to the correct address.

Note: The University is not responsible for mailing correspondence to the incorrect address unless the student has formally made an address change.

Course Requirement Information - Course Syllabus

Faculty shall provide students with a course syllabus, which should be placed on the course Blackboard site at the beginning of the semester, containing the following information:

- Name of instructor, office location, office hours, office telephone number, and @csueastbay.edu e-mail;
- Course number and title, classroom location, number of units, prerequisites (if any), a course description, objectives and student learning outcomes;
- Required texts and any other required and/or recommended materials;
- Student-supplied equipment and materials necessary for course activities;
- Course specific requirements and their due dates, such as examinations, quizzes, papers, field trips, and labs;
- Grading policy, which includes the relative weight of examinations, quizzes, papers, class participation, and other factors, and the grading scale;
- Attendance and make-up work policies and implications for grading;
- The following statement and reference to University policies regarding cheating and academic dishonesty: **"By enrolling in this class the student agrees to uphold the standards of academic integrity described at: <http://www.csueastbay.edu/academic/academic-policies/academic-dishonesty.html>."**
- Accommodations for students with disabilities.
 - Sample statement: **"If you have a documented disability and wish to discuss academic accommodations, or if you would need assistance in the event of an emergency evacuation, please contact me as soon as possible. Students with disabilities needing accommodation should speak with the Accessibility Services."**
- Emergency information.
 - Sample statement: **"California State University, East Bay is committed to being a safe and caring community. Your appropriate response in the event of an emergency can help save lives. Information on what to do in an emergency situation (earthquake, electrical outage, fire, extreme heat, severe storm, hazardous materials, terrorist attack) may be found at: <http://www.csueastbay.edu/af/departments/risk-management/ehs/emergency->**

management/index.html. Please be familiar with these procedures. Information on this page is updated as required. Please review the information on a regular basis."

Faculty are also encouraged to include additional items such as:

- Course outline;
- Types of quizzes and exams (e.g., true-false, multiple choice, short-answer, essay);
- Availability of appropriate tutoring services;
- Policies regarding audio and video recording and use of electronic devices;
- Reference to University classroom behavior policies;
- Classroom food and drink policies.

Furthermore, faculty should advise students of their expectations in the course no later than the end of the second class. Any changes in course requirements should be communicated to students in a timely manner. It is the student's responsibility to read the course statement and to request any clarification of course policies. If a student adds the course after the first week of class, they must seek course information in a timely manner.

Faculty Office Hours Policy

The faculty of the University are available during regularly scheduled office hours, which are at times other than scheduled classes. The times of the office hours are posted outside each faculty office, at the faculty member's department, on the department website, and on the faculty member's course syllabi. The faculty member informs the department of their office hours the first day of classes each semester. *Note: There is a proposal to amend the following policy regarding office hours. If approved by the University President, the policy may differ from the one below.*

Full-time faculty members maintain a minimum of three (3) office hours per week and also make provision for meeting with students by appointment at a mutually convenient time beyond the stated office hours. The full-time faculty member's office hours shall be held over at least two days and at least in half-hour blocks. Part-time faculty will maintain the equivalent of one (1) office hour per week for each four WTUs of their teaching load with a minimum of one hour and a maximum of three hours per week.

Faculty teaching online must also hold office hours and may make alternative arrangements with the Department Chair to be available online or by telephone. Online faculty's office hours must include at least one (1) hour of availability by telephone per week.

If for any reason a faculty member cannot meet the posted office hours, the faculty member will inform the Department Chair. If possible, the department will note the absence on the faculty office door.

Note: Normal office hours are to be maintained during the Final Examination period. If a final examination conflicts with a posted office hour, an alternative hour is to be posted for that week alone.

Enrollment

Students at Cal State East Bay can enroll for classes prior to each term via the University's online registration system in *MyCSUEB*. Demonstrations and instructions for the enrollment process can be found within the "Help" feature in *MyCSUEB*. Students requiring assistance may call the Office of the

Registrar at (510) 885-2784 or visit the Student Enrollment Information Center on the first floor of the Student Services and Administration Building on the Hayward Campus or in the lobby of the Academic Services Building on the Concord Campus.

Transcript Requests

Students may obtain official transcripts of coursework taken at Cal State East Bay (including continuing education and special session courses) from the Office of the Registrar. Refer to the transcripts section on the University website for current ordering procedures, forms and costs. Transcript Request forms that are mailed must also include a check (*payable to Cal State East Bay*) for the current fee. **Please do not send cash with mailed requests.**

Students with financial and judicial holds placed by the University, or with academic, document, library, equipment, or other obligations to Cal State East Bay, are not permitted to receive transcripts or to request transcripts to be sent to other institutions.

Grading & Academic Standards

Policies & Procedures

- Undergraduate Academic Grading Symbols
- Administrative Grading Symbols
- University Grading Policy
- Grade Availability after Final Exams
- Appealing an Inappropriate Grade
- Grade Forgiveness & Course Repetition
- Grade Forgiveness of Previous Terms

Academic Standards

- Grade Point Average (GPA)
- Qualifying for the Dean's & Honors List
- Latin Honors
- Undergraduate Probation & Disqualification Policy
- Undergraduate Reinstatement after Disqualification

Grade Point Average (GPA)

The student's grade point average (GPA) is calculated by dividing the total number of quality hours (units attempted, excluding CR/NC courses) into the number of grade (quality) points earned.

A 2.00 (C) average in all college/university courses, all Cal State East Bay courses, and all major courses are required for a baccalaureate degree (excluding "CR," "NC," "W," and "AU" grades). All courses taken as part of the major, including those in other departments are included in the calculation of the major GPA.

See also Academic Grading Symbols for information about grade points.

Academic Grading Symbols (Undergraduate)

Undergraduate Course Symbols & Grade Points Earned

Academic Symbol	Definitions	Grade (Quality) Points Earned
A	Excellent	4.0
A-	Excellent	3.7

B+	Good	3.3
B	Good	3.0
B-	Good	2.7
C+	Satisfactory	2.3
C	Satisfactory	2.0
C-	Satisfactory	1.7
D+	Poor	1.3
D	Poor	1.0
F	Failing	0.0
CR	Credit	not applicable
NC	No Credit	not applicable



"A-F" Grading Pattern

Courses required for majors in a major department are taken in this pattern. Specific department exemptions are noted in the course description. Faculty use of "+" or "-" is optional.

Credit/No Credit and A/B/C/No Credit Grading Patterns (CR/NC and A/B/C/NC)

Students may enroll in up to 40 semester units in credit/no credit patterns as an **undergraduate**. There are two *credit/no credit* patterns:

1. "CR/NC,"
2. "A/B/C/NC."

Some courses are only offered in the "CR/NC" or "A/B/C/NC" patterns. Undergraduate students can select the "CR/NC" pattern for most other courses subject to certain restrictions. Students can choose the "CR/NC" pattern during registration until the end of the Grade Type Change period.

Note: No changes to, or from, the credit/no credit pattern are permitted after the Grade Type Change period. There are no exceptions to this rule. Courses in a student's major department, regardless of course prefix, may not be taken "CR/NC," unless that is the only grading pattern in the course.

Units that students earn in courses taken under these grading patterns will apply to their degree requirements as long as they are not pre-baccalaureate courses (courses numbered 000 - 099).

- "CR" signifies that a student mastered the material at the level of "C-" or higher.
- "NC" signifies a work level of "D+" or lower.

Administrative Grading Symbols

Administrative Grading Symbols & Their Definitions

Administrative Grading Symbol	Definition	Grade (Quality) Points Earned
RP	Report in Progress	not applicable
I	Incomplete (Authorized)	not applicable
IC	Incomplete Charged	0.0
RD	Report Delayed	not applicable
W	Withdrawal	not applicable
WU	Withdrawal Unauthorized	0.0
AU	Audit	not applicable

Report in Progress (RP)

The symbol "RP," Report in Progress, is used in connection with courses that extend beyond an academic term. This symbol indicates that work is in progress, but that a final grade cannot be assigned until additional work is completed. The work must be completed within one year.

Note: If the work is not completed within the established time limit the "RP" grade will be changed to an "F" or "NC," depending on the grading pattern for the course.

Incomplete (I)

The symbol "I", Incomplete (Authorized), indicates that:

1. a discrete portion of the required coursework has not been completed and evaluated in the prescribed time period due to unforeseen, but fully justified, reasons,
2. attending a future offering of the class is not required to complete the work, and
3. the instructor believes it likely that the student will earn credit for the course upon completion of that work.

Students who are currently failing a course are not eligible for an Incomplete.

It is the student's responsibility to bring pertinent information to the attention of the instructor and to determine from the instructor the remaining course requirements that must be satisfied to remove the Incomplete. A final grade is assigned when the work agreed upon has been completed and evaluated. The instructor will specify the work needed to complete the course that can be viewed in *MyCSUEB*.

Note: An "I" must normally be made up within one calendar year immediately following the end of the term during which it was assigned. This limitation prevails whether or not the student maintains continuous enrollment. Students may not repeat a course in which they currently have an incomplete grade. Students who are currently failing a course are not eligible for an Incomplete.

Students may be able to receive up to a one-semester extension from the instructor. These extensions are for cause and must be approved by both the instructor and department chair. (Examples of cause include military service, serious health or personal problems, or instructor's leave of absence.) If a student wants credit for a course after an "I" has been converted to an "IC," the student must re-register and pass the course.

When the required work has been completed and evaluated, the instructor will submit a change of grade form and the academic grade will be recorded. If the student does not complete the work within the allowed time limit, the grade will be recorded as an "IC" (Incomplete Charged).

A student can graduate with an "I" grade on their record if the course is not necessary for graduation requirements. No grade may be changed once the degree has been awarded.

Incomplete Charged (IC)

The symbol "IC," Incomplete Charged, is used if the student received an authorized incomplete ("I"), but did not complete the required coursework within the allowed time limit, and the original grading pattern of the course was "A-F." If the grading pattern was either "A/B/C/NC" or "CR/NC", the grade will be recorded as "NC."

Note: The "IC" replaces the "I" and is counted as a failing grade for computing grade point average.

Report Delayed (RD)

The Report Delayed grade is an administrative grade assigned to students for a course if the instructor notifies the Office of the Registrar that grade reports have been delayed by circumstances beyond the control of the instructor. An example is the illness of the instructor at the end of the semester. The instructor will replace the "RD" grade with an academic grade as soon as possible.

Note: If the instructor fails to replace it with an academic grade by the end of the following semester, the grade "RD" will be converted to a "WU" or an "NC" depending on the grading pattern.

Withdrawal (W)

Dropping a course may be permitted, without restriction or penalty, during the Add/Drop Period. No grading symbol is recorded in such instances.

The "W" administrative grade indicates that the student was permitted to withdraw from a course after the end of the Add/Drop Period and prior to the last twenty percent of instruction, and may be assigned only for serious and compelling reasons. Permission to withdraw during this time shall be granted only with the approval of both the instructor and the department chair. The requests and approvals shall state the reasons for withdrawal.

Undergraduate students may withdraw after the Add/Drop Period from no more than 18 semester units in the undergraduate career. Only withdrawals recorded in terms beginning with Fall 2009 are counted. When serious illness or accidents are documented and used as the basis for approval of withdrawal from classes in the term, the units in question will not count against the maximum units allowed. Open University units are counted toward the maximum units. No limitations are placed on withdrawals by post-baccalaureate students taking classes in a post-baccalaureate career.

Withdrawals are not permitted during the final twenty percent of instruction except in cases, such as accident or serious illness, where the cause of withdrawal is due to circumstances clearly beyond the student's control and the assignment of an Incomplete is not practicable. Withdrawals of this nature may involve total withdrawal from the campus or may involve only one course, except that a course grade and credit or an Incomplete grade may be assigned for courses in which sufficient work has been completed to permit an evaluation to be made. When serious illness or accidents are documented and used as the basis for approval of withdrawal from classes in the term, the units in question will not count against the maximum units allowed. Request for permission to withdraw under these circumstances shall be granted only with the approval of the instructor, the department chair, the college dean and the administrator appointed by the President to act in such matters.

The "W" grade shall not be used in the calculation of grade point averages.

Withdrawal Unauthorized (WU)

The "WU" grade (Withdrawal Unauthorized) shall be used where a student who is enrolled on the census date does not officially withdraw from a course, but fails to complete it. Its most common use is in those instances where a student has not completed sufficient course assignments or participated in sufficient course activity to make it possible, in the opinion of the instructor, to report satisfactory or unsatisfactory completion of the class by use of the letter grade (A-F). *The "WU" is counted in the grade point average as an*

"F" grade. When assigning the "WU" grade, the instructor shall report the last known date of attendance by the student.

Audit (AU)

Students may take courses for instruction only (Audit), and will attend class but will not receive credit. Audit students will pay the same fees and enjoy the same instructional privileges as students enrolled for credit. Audit students may participate in class, take examinations or complete other assignments, but are not required to do so.

Note: Students may not petition to change their enrollment status from, or to, "Audit" after the Grade Type Change period has ended.

University Grading Policy

It is an integral part of the teaching responsibility of the faculty to provide careful evaluation and timely assignment of an appropriate grade to each enrolled student. There is a presumption that grades assigned are correct. It is the responsibility of anyone appealing an assigned grade to demonstrate otherwise. In the absence of compelling reasons, such as instructor or clerical error, prejudice, or capriciousness, the grade determined by the instructor of record will be considered final.

For purposes of correcting an error, an instructor may change a grade with approval of his/her department chair and college dean. No grade may be changed once graduation has been recorded unless an error has been made, in which case students have one semester after their degree has been awarded to dispute the grade and have it corrected, or if a Grade Appeal petition has resulted in a grade change. The administrative symbol for withdrawal cannot be assigned by a faculty member.

See the Registration & Enrollment chapter for the description of withdrawal policies and procedures.

Grade Availability After Final Exams

Grades for the term are available online after faculty submit their official grade rosters and grades are official. Check the

Important Dates page on the University website for the dates grades become official each term. To check grades and academic standing, visit **MyCSUEB**. Under *Student Center* **use the drop-down "(other academics...)"**.

Appealing an Inappropriate Grade

Faculty have the sole right and responsibility to provide careful evaluation and timely assignment of appropriate grades. There is a presumption that grades assigned are correct. It is the responsibility of anyone appealing an assigned grade to demonstrate otherwise. In the absence of compelling reasons, such as instructor or clerical error, prejudice or capriciousness, the grade assigned by the instructor of record is to be considered final. Students who believe that an appropriate grade has not been assigned should

attempt to resolve the problem with their instructor. If the student is not satisfied with the outcome, they should discuss the issue with the department chair in which the course was offered. If the issue is not resolved, the student should make an appointment with the dean or associate dean of the college in which the course is offered. If all previous actions fail, the student should contact the Presidential Appointee to the Grade Appeal and Academic Grievance Committee by calling (510) 885-3716. If the student has applied for graduation, the student should notify their graduation evaluator that a question is pending resolution. Once a degree is posted, no grade changes will be allowed.

Grade Appeal and Academic Grievance Committee

The Grade Appeal and Academic Grievance process, administered by this committee, allows students to resolve serious cases of alleged academic unfairness. After every effort by all parties to resolve the dispute has been ineffective, students can discuss their case with the Presidential Appointee to the Grade Appeal and Academic Grievance Committee. The Presidential Appointee will assist students in exhausting all normal channels and, if necessary, in filing a Petition (see link below) for a Grade Appeal Hearing. Students will need to submit their petition and supporting documentation to the Academic Programs and Services Office. The committee will review this documentation and the response(s) filed by the other parties involved in the dispute. If the committee finds possible grounds for a grievance, a Hearing Panel will be convened to hear the case. Under normal circumstances, the student must file their Petition before the end of the semester following the semester in which the alleged incident took place.

The Grade Appeal and Academic Grievance Committee is empowered to change a grade in accordance with the Grade Appeal Document and to assign a grade in cases where the instructor may have assigned an unfair academic grade. The Grade Appeal and Academic Grievance Committee is authorized to change a grade only after it has conducted a proper review of the case.

Grade Appeal Petition Form

For additional information see the **Student Rights, Responsibilities & Conduct** chapter.

More information is available from the Office of Academic Programs and Services (Student Services and Administration Building, Suite 4500; Tel. (510) 885-3716)

Grade Forgiveness and Repetition of Courses

Undergraduate students (regular enrollment and Open University) may repeat courses only if they earned grades lower than a C (including C-, D+ D, F, WU, IC and NC). Repeating a course with an incomplete ("I") grade is not allowed; a grade must be assigned or the "I" must revert to an "IC" prior to repeating the course. The policies regarding repeating courses with Grade Forgiveness or Grade Averaging as described below apply only to courses taken and repeated at Cal State East Bay. Any student who is repeating a course (except if the grade for that course was "W") is not permitted to register during first or second pass and must register on a space available basis during or after the open enrollment period.

Students may repeat a course for grade forgiveness two times. "Grade forgiveness" is the phrase indicating that the earlier attempt(s) is ignored in GPA calculations, but not removed from the record, subject to the following conditions.

Course Equivalencies For Purposes of Grade Forgiveness

For information about forgiveness equivalencies for quarter-based courses, students should contact the chair of the corresponding department.

Equivalent course groups (ECGs) are certain General Education courses that are considered equivalent for the purposes of grade forgiveness. Therefore, students will receive credit for only one course in each of the following groups:

- CHEM 161, CHEM 165.
- GEOL 100, GEOL 101.
- LIBY 210, LIBY 220.
- STAT 100, STAT 110.

Unit Limit on Repeating Courses

Students are limited to 28 semester units.

1. Students can only receive grade forgiveness for 16 semester units of coursework.
2. Students may repeat an additional 12 semester units of coursework for grade averaging. The quality hours and quality points of the repeated courses will be averaged, while the units earned for these subsequent attempts will not be counted.
3. Students who have repeated the maximum allowable, are otherwise making appropriate progress to degree, and still need to repeat courses to fulfill specific major or minor requirements necessary for graduation may petition for an exception to the 28-unit limit. The General Education Office will administer the petition process. Any course(s) approved for repeating by this petition process will be grade averaged.

Grade Forgiveness is not possible in the following circumstances:

1. Repeating any one course for Grade Forgiveness more than twice. (Some departments may restrict grade forgiveness to only one repeat.)
2. Repeating a grade of "C" (2.0) or better.
3. Any grade assigned as a result of academic dishonesty.
4. If the original grade(s) was assigned at Cal State East Bay, Grade Forgiveness by repeating a course at another institution is normally not possible. (Exceptions may be made for disqualified students who file an approved petition prior to repeating the course elsewhere, but only to the extent necessary for their readmission.) Disqualified students repeating courses through Open University at CSUEB, only to the extent necessary for their readmission, do not need to file a petition.

Cal State East Bay honors the Grade Forgiveness policies of other institutions as stated on their official transcripts.

Grade Forgiveness of Previous Terms

Under the most extenuating circumstances, a student can petition to exclude from degree requirements and GPA computations up to two semesters (or up to three quarters) of coursework taken at any institution. To have the petition approved, the student must meet certain conditions and follow the process described below.

- The student must formally request such action and present evidence that substantiates that the work in question is substandard and not representative of the student's current scholastic ability;
- The previous level of scholastic ability was due to extenuating circumstances; and,
- All degree requirements except the earning of at least a 2.0 grade point average have or will soon be met.

Petitioning students must complete the following steps:

- complete the student's portion of the "Petition for Forgiveness of Previous Term,"
- obtain the major advisor's approval on the petition,
- file the petition in the Department of General Education.

If the petitioner is eligible, the Chair of General Studies shall certify that the conditions are met, attach a copy of the student's academic record, and forward the package to the Grade Forgiveness committee. The committee, chaired by the Dean of Academic Programs and Services and consisting of at least three members with the majority being faculty, acts upon all petitions by majority vote.

If the Chair of General Studies determines the petitioner does not meet the conditions, the petitioner will be notified and no action is taken. Final determination shall be made only when:

- Five years have elapsed since the most recent work to be disregarded was completed;
- The student has earned in residence at Cal State East Bay since the most recent work being considered was completed:
 - o 15 semester units with at least a 3.0 GPA, or
 - o 30 semester units with at least a 2.5 GPA, or
 - o 45 semester units with at least a 2.0 GPA;
- When such action is taken, the student's record shall be annotated so that it is readily evident to users of the record that no work taken during the disregarded term(s), even if satisfactory, has been applied towards the meeting of degree requirements. However, all work must remain legible on the record.

If another institution has acted to remove coursework from consideration, such action shall be honored in terms of that institution's policy. But, elimination of any coursework's consideration shall reduce by one semester the two semester maximum on the application of academic renewal to an individual Cal State East Bay's student's record.

Dean's & Honors Lists

Recognition of the following honors will be posted to the student transcript for each semester that the student is on the list.

Qualifying for the Dean's List

Students who achieve academic distinction in any academic semester, as evidenced by a grade point average of 3.80 or higher in 9 units or more, in addition to any units graded CR/NC, will be included on the Dean's List for that semester.

Qualifying for the Honors List

Students with a grade point average in the range of 3.60-3.79 will be included on the Honors List for that semester.

Academic (Latin) Honors

Graduation with Honors

Candidates for the baccalaureate degree may be eligible for the awarding of Latin Honors at the time of graduation if they have fulfilled the following conditions:

1. They must have a cumulative grade point average of 3.65 or higher in all coursework and in coursework completed at Cal State East Bay.
2. They must have completed at least 40 semester-units of coursework in residence (as defined in the University Catalog) at Cal State East Bay.

summa cum laude (cumulative GPA, overall and at CSUEB, of 3.85-4.00) *highest honor*

magna cum laude (cumulative GPA, overall and at CSUEB, of 3.75-3.84) *high honor*

cum laude (cumulative GPA, overall and at CSUEB, of 3.65-3.74) *honor*

The GPA is officially calculated at the time the student has completed graduation requirements. The honors designation will be noted on the student's diploma and official transcript. The conditions noted above apply equally to second-baccalaureate degree candidates.

Note: Post-baccalaureate and graduate students are not eligible for Latin Honors.

University Honors Program

The University Honors Program is different from "graduation with honors". Graduation with honors is determined strictly on a GPA basis, and no additional coursework is required. The University Honors Program provides outstanding students the opportunity for academic challenge through the completion of specialized courses, seminars and projects under the direction of faculty mentors. To see their website, click on the link for more information.

Undergraduate Probation and Disqualification Policy

The following policies govern undergraduate academic & administrative probation and disqualification:

Academic Probation

According to Title 5 of the California Code of Regulations, students must achieve at least a 2.0 grade point average (GPA) in all baccalaureate work, all work at Cal State East Bay, and all work in their major to receive a baccalaureate degree.

A student will be placed on academic probation if, following a Fall or Spring Semester, their Cal State East Bay cumulative GPA falls below 2.0. Academic probation warns individuals that their academic performance is below the state minimum required for graduation, and that their GPA must improve before a degree can be granted.

The probation status is shown on the student's transcript.

Undergraduate students on probation will remain on continued probation when the following semester term GPA is 2.0 or better, but the Cal State East Bay cumulative GPA remains below 2.0. The continued probation status is shown on the transcript and is treated like probation in terms of academic standing.

Freshmen on academic probation are allowed a second consecutive semester of probation (known as "continued probation") if their Cal State East Bay cumulative GPA is in the range of 1.50 to 1.99.

The Registrar will notify students who are placed on probation when semester term grades are posted. The notification will include a referral to academic advisors, including advisors in Academic Advising and Career Education, advisors in college success centers, and faculty major advisors. EXCEL or Educational Opportunity Program (EOP) students should contact their counselors.

Students remain on probation or continued probation until they are either returned to good academic standing or are disqualified. When the Cal State East Bay cumulative GPA is raised to at least 2.0 following a Fall or Spring semester, the student will be returned to good academic standing.

Academic Disqualification

As authorized by Title 5 of the California Code of Regulations, undergraduate students on academic probation are subject to academic disqualification when:

- as a freshman (fewer than 30 semester units of college work completed), the Fall or Spring term grade point average is below 1.50;
- as a sophomore, junior, or senior, the Fall or Spring semester term GPA is below 2.0.

The disqualified status is shown on the student's transcript.

Administrative Academic Probation

As authorized by Title 5 of the California Code of Regulations, a student may be placed on administrative academic probation for:

- withdrawal or administrative disenrollment from all or a substantial portion of a program of studies in two successive terms or in any three terms. (*Note: A student whose withdrawal is directly*

associated with a chronic or recurring medical condition or its treatment is not subject to administrative academic probation for such withdrawal);

- repeated failure to progress toward the stated degree objective or other program objective, including that resulting from the assignment of "NC," when such failure appears to be due to circumstances within the control of the student;
- failure to comply, after due notice, with an academic requirement or regulation, as defined by campus policy, which is routine for all students or a defined group of students, such as failure to complete the writing skills test, failure to complete a required practicum, failure to comply with professional standards appropriate to the field of study, or failure to complete a specified number of units as a condition for receiving student financial aid or making satisfactory progress in the academic program.

When such action is taken, the student shall be notified in writing and shall be provided with the conditions for removal from administrative academic probation and the circumstances that would lead to administrative academic disqualification, should probation not be removed.

Administrative Academic Disqualification

As authorized by Title 5 of the California Code of Regulations, a student who has been placed on administrative academic probation may be disqualified from further attendance if:

- the conditions for removal of administrative academic probation are not met within the period specified;
- the student becomes subject to academic probation while on administrative academic probation;
- the student becomes subject to administrative academic probation for the same or similar reason for which the student has been placed on administrative academic probation previously, although not currently in such status.

Students who are not on probation may be subject to administrative academic disqualification if:

- the student's cumulative grade point average is below 1.0 at the end of any term;
- the student's cumulative grade point average is so low that in view of the student's overall educational record, it seems unlikely that the deficiency will be removed within a reasonable period.

When such action is taken, the student shall receive written notification, including an explanation of the basis for the action.

Reinstatement as an Undergraduate after Academic Disqualification

To be readmitted or reinstated as an undergraduate student following *Academic Disqualification*, a student must have earned good grades at another accredited institution, or through Open University, have improved their CSUEB and cumulative GPA to 2.00 or better, and have completed any required remediation. Typically, students will not be considered for readmission for one year, and certainly not for at least one semester. If a student is not readmitted within two semesters, they must also reapply for admission.

The *Admissions Review Committee* will decide on petitions for reinstatement, on a case-by-case basis. Students who do not meet the above-mentioned criteria but feel they have compelling and/or extenuating circumstances which prevent them from achieving the reinstatement requirements may be reinstated on probation by the committee if, in their judgment, the student is likely to remove any grade point average deficiencies within the subsequent two terms.

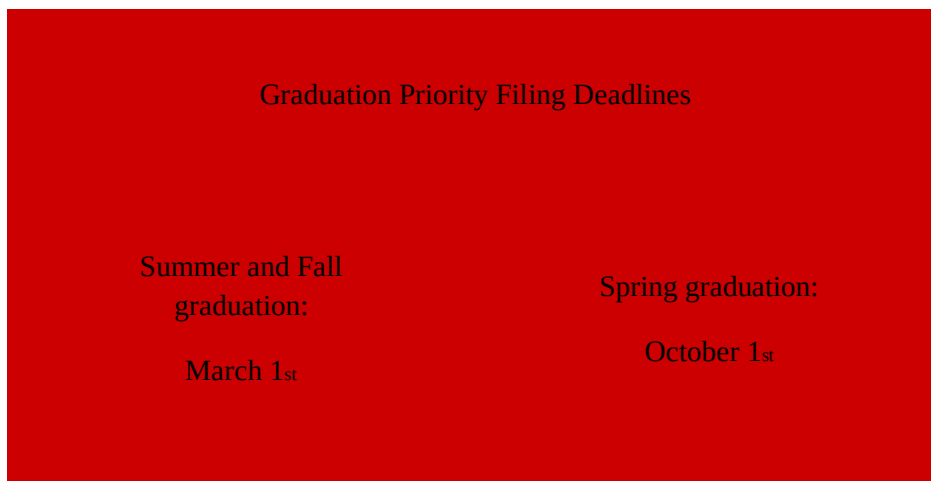
Note: Students who are readmitted or reinstated must maintain a minimum term GPA of 2.5. Students who are academically disqualified for a second time will not be readmitted or reinstated.

Graduation

- Time to Think About Graduation
- Important Facts to Remember
- Applying for Graduation
- Graduation Requirement in Writing Proficiency
- SSMP & Credential Program Students Filing for Graduation
- Catalog Rights for Graduation
- Diplomas

Time to Think About Graduation!

Students should apply for graduation by the priority filing deadline for the term in which they intend to graduate:



Continuing students who have satisfied the University Writing Skills Requirement can log into *MyCSUEB* and click on "Apply for Graduation." After filing, students should print the final confirmation page and give a copy to their major and minor departments to initiate a graduate check. Discontinued students can file for graduation using the Graduation Application - Closed Matriculation form on the University website under Student Records Forms.

Note: Students are advised to review completion of degree requirements with their department before filing for graduation. Degrees are awarded within three months after the student's final term of attendance.

IMPORTANT Facts to Remember

Students are advised to review completion of general education requirements and to consult with their major and minor departments before filing for graduation.

Remember:

Students are responsible for filing for graduation by the established priority deadlines. **All students must have completed the University Writing Skills Requirement (UWSR) in order to apply for**

graduation. Undergraduate students must have completed 90 semester units in order to apply for graduation.

Graduation Priority Filing Deadlines

Summer and Fall graduation:

March 1st

Spring graduation:

October 1st

Students who file for graduation after the priority deadline will not receive priority registration as a graduating senior or graduating graduate, and the final graduation review by the Office of the Registrar may also be delayed. Students are responsible for contacting their academic major and minor departments and informing them of their intent to graduate. Students must allow enough notice so that their department will have sufficient time to generate a major or minor check indicating whether the student has satisfied all academic requirements of the major or minor. The major and minor checks are due to the *Office of the Registrar* by the following dates:

Major and Minor Check Deadlines

Summer graduation:

April 15th

Fall graduation:

May 15th

Spring graduation:

November 15th

To register as a graduating senior, students must have filed for graduation by the time registration appointments are assigned and have earned a minimum of 100 semester units; a student may file for graduation when they have earned 90 semester units but must complete 100 semester units to receive priority registration. Students who cannot complete all requirements by their anticipated graduation term may postpone their graduation to the next consecutive term with approval from their major department. Students who file for Fall graduation may postpone to Spring. Students who file for Spring graduation may postpone to Summer and/or Fall. To postpone their graduation, students must complete a Graduation Postponement form, and may be charged a processing fee of up to one half of the current graduation filing fee (the fee is only applicable to undergraduate students). A graduation evaluator may also postpone a student's graduation if they determine all degree requirements will not be met. Any student with more than 144 semester units who wishes to postpone their graduation term must also obtain approval from the

Dean of Academic Programs and Services and may be placed on an academic contract for the remaining coursework. Students should submit the Graduation Postponement form well in advance of the opening of registration for a given term, and no later than the end of the Add/Drop period of the term originally intended to be the student's final term. Changes in the information on the diploma (i.e. change of name, address to be sent, deletion of an incomplete minor) must be submitted no later than the end of the Add/Drop period of the intended term of graduation.

Major & Minor Checks

After filing for graduation, students must contact their major department to complete an official "Major Check" showing all completed and remaining requirements for the major. The department must submit the major check to the *Office of the Registrar* by the deadline listed above.

Students are strongly encouraged to check with their academic department by the deadline to be certain a major check has been filed.

If students are completing a minor and want it recorded, they must request that a "Minor Check" be submitted by the department offering the minor to the *Office of the Registrar* by the deadline listed above.

Waivers

If a substitution or waiver petition is approved for major, G.E., or other graduation requirements, students must be certain the approved petition reaches the *Office of the Registrar* at least four weeks before the end of their final term.

Degree Posting

Degrees are conferred three times a year for students who have filed for graduation and completed all degree requirements: August (Summer), December (Fall) and May (Spring). The date on the diploma reflects the semester in which the student completed all degree requirements. The final graduation evaluation process typically takes up to **three months following the posting of grades from the student's last term of attendance**. The student's diploma will be ordered and mailed to their permanent address of record with the university approximately 6-8 weeks after the degree has been awarded.

Commencement

Participation in a Commencement Ceremony is different than graduating and earning a degree. Graduation applicants who are candidates for a degree during the Fall, Spring, or Summer term of the same academic year or school year as of March 1 are eligible to participate and their name will be printed in the official commencement program. There is one University Commencement each year, held in the Spring.

Student's Historical Record

In order to protect the integrity of its transcripts, the University will not make any changes to student records unless there is documented evidence of University error. Once a degree is posted to a student's permanent record, the diploma and transcript cannot be altered by adding additional options and/or

minors, or by grade changes, withdrawals, and/or grade forgiveness. Transfer coursework submitted after degree posting will not be reflected on a student's record. Students who believe that they have received a grade in error should promptly ask the instructor to verify and, if appropriate, correct the grade. If an error was made, the instructor of record must indicate specifically the nature of that error on the Change of Grade form and submit the completed form to the Student Records Office. Students who feel they received a grade due to unfairness would also have one semester to pursue their allegation of unfairness through the University's Grade Appeal process. Students must notify the *Office of the Registrar* of any errors in their grades no later than the semester subsequent to the semester in which their degree is awarded or upon completion of the Grade Appeal process. The Registrar's Office may also seek clarification of the error from the Department Chair.

If the instructor is absent from campus during the semester subsequent to the semester in which the student's degree is awarded, the student shall promptly consult with the Department Chair about the grade in question. If the Department Chair is unable to contact the instructor, the chair will notify the Dean of the College and the University Registrar in writing that an extension of the grade correction deadline, up to one year after the degree has been awarded, has been requested.

For purposes of correcting an error, an instructor may change a grade with approval of his/her Department Chair and College Dean. No grade may be changed once graduation has been recorded unless an error has been made in which case students have one semester after their degree has been awarded to dispute the grade and have it corrected, or if a Grade Appeal petition has resulted in a grade change. The administrative symbol for withdrawal cannot be assigned by a faculty member.

See the Registration chapter for the description of withdrawal policies and procedures.

Applying for Graduation

Important: Students are advised to review completion of degree requirements with their department before filing for graduation.

Graduation Application Fee

The Graduation Application (filing) Fee will be charged to the student's account after they file for graduation. The fee is nonrefundable, and can be paid in one of the following ways:

- online at *MyCSUEB*,
- in person at the Cashier's Office in the Student Enrollment Information Center (Student Services and Administration Building, 1st Floor) on the Hayward Hills Campus,
- in person in the Academic Services Office on the Concord Campus.

The Graduation Application Fee covers the cost of the graduation check of coursework, completing the diploma, and participation in the annual commencement ceremony. *Note: the application fee does not include the cap and gown rental/purchase, handled separately by the Bookstore.*

Priority Registration

Note: When a student files for graduation, they may obtain a new registration priority.

To register for classes as a "graduating student", students must meet the following criteria at the time enrollment appointments are assigned each term:

- Undergraduate Students: Completed 100 semester units and filed for graduation by the priority filing deadline,
- Graduate Students: Considered a "Classified Graduate" who is recommended for Advancement to Candidacy by their advisor and who has made substantial progress towards their degree, or filed for graduation by the priority filing deadline.

Graduation Requirement in Writing Proficiency (UWSR)

Note: This content has been changed, please see the Errata chapter for information.

In addition to the lower-division General Education requirements for writing, the California State University system requires that *all students* must demonstrate competency in writing skills as a requirement for graduation and to receive a baccalaureate, master's, or doctoral degree. This requirement was implemented system-wide in 1977. Students must satisfy the University Writing Skills Requirement (UWSR) in order to receive a degree from Cal State East Bay unless they are exempt by one of the following criteria:

1. Previously satisfied the UWSR at Cal State East Bay or at another CSU campus, Cal State East Bay will accept official certification of completion if the entire requirement, as specified by that CSU campus, was satisfied and the student was a matriculated student at that campus at the time. On some CSU campuses, the requirement is called the "Graduation Writing Assessment Requirement (GWAR)."
2. Graduated from any one of the CSU campuses; unless it is noted on the transcript that the UWSR (or GWAR) was not satisfied.
3. Received an essay score of 4.5 or higher on the GMAT or GRE or an essay score of 53 or higher on the CBEST.

Undergraduate students are required to begin steps to satisfy the University Writing Skills Requirement after completing 60 semester units. Students who do not enroll in an appropriate course or register to take the Writing Skills Test in their first semester after completing 60 units will have a registration hold placed. The hold will be lifted as the student progresses towards completion of this requirement. *Note: Undergraduate students cannot satisfy this requirement before completing 60 units. For undergraduate students, completion of GE Area A2 and ENGL 200 or another approved second composition course, which are graduation degree requirements, is also required before attempting to satisfy the UWSR.*

To satisfy the requirement at Cal State East Bay, students may do one of the following:

- **Option One:** Register for and pass the Writing Skills Test. See Writing Skills Test (Option One) below.
- **Option Two:** Enroll in and pass a first-tier writing course (ENGL 300 or ENGL 301) and possibly a second-tier course, as well. See Course (Option Two) below.

Writing Skills Test (Option One)

The Writing Skills Test (WST) consists of an analytic essay that requires students to demonstrate that they can think and write critically. A score of Clear Competence (8) is needed to meet the requirement. Students who do not meet receive the Clear Competence designation on the first attempt have only one opportunity to take it again; a score of Clear Competence on the second attempt satisfies the requirement. If both tests are scored as "Limited Competence (6)", they will be required to take the course option (see below). If one or both scores is "Developing Competence (7)", they need only take a second-tier course to satisfy the UWSR (see below).

Note: There is a fee for the WST. See the Fees & Financial Services chapter for more information.

Course (Option Two)

ENGL 300 and ENGL 301 are the first-tier writing courses designed to help students meet the University Writing Skills Requirement. Students who have not attempted the WST or those who have taken the Writing Skills Test (WST) and have received Limited Competence (6) must take either ENGL 300 or ENGL 301 and perhaps a second-tier writing course as well. Students who have not taken the WST twice may take it even when enrolled in a writing skills course. Generally speaking, ENGL 300 is intended for native speakers of English, while ENGL 301 is intended for non-native speakers. Based on end-of-course portfolio evaluation scores, at the end of the first-tier course they will be advised as to their next step, which will involve one of the following: they may be found to have met the UWSR requirement altogether; they may be directed to enroll in a second-tier course; or, they may be directed to repeat the first tier course.

Generally, two second-tier writing courses are regularly offered: ENGL 302 and MKTG 305 . Students who passed the quarter-based equivalents to these courses (ENGL 3003 and MKTG 3495) prior to fall 2000 may not have met the UWSR. For more information on these courses, contact the individual department. Courses approved for second-tier writing are listed here: Second Tier Courses. Students who pass a second-tier writing course with a C- or better (or "CR" if taken as CR/NC) have satisfied the UWSR.

Students who have taken the first-tier writing course three times consecutively, have not passed, and have a letter of good faith effort from their most recent first-tier instructor may apply to the Dean of Academic Programs and Services for a waiver of the UWSR. If a waiver is granted, the student's permanent record will note that they were allowed to graduate without having satisfied the UWSR. Students who do not satisfy the requirement and do not have a waiver approved will not be allowed to graduate. Contact the Dean of Academic Programs and Services for information on this waiver at (510) 885-2990.

If a student receives a grade of "D+" or "D" in a second-tier writing course (taken Fall Quarter, 2000 or later), they may appeal to the Dean of Academic Programs and Services for a waiver of the UWSR. If a waiver is granted, their permanent record will note that they were allowed to graduate without having satisfied the UWSR. Students who do not satisfy the requirement and do not have a waiver approved will not be allowed to graduate. Contact the Dean of Academic Programs and Services for information on this waiver at (510) 885-2990.

Students who have a verified disability and would like to request accommodations to assist them in satisfying this requirement should contact the Accessibility Services in the Library Complex 2440 or call (510) 885-3868 (phone/TTY).

For more information on meeting the University Writing Skills Requirement, see the Testing Office website or call (510) 885-3661.

SSMP & Credential Program Students Filing for Graduation

Undergraduate and Graduate Students

If a student is completing an undergraduate *Single Subject Matter Preparation* program for entry into a teaching credential program, or they are completing a graduate *Single or Multiple Subject Credential* program, they should *NOT* file for graduation.

The appropriate check sheet *MUST* be submitted by the department or program committee offering the program to:

Credentialing Student Services Center

(Art & Education Building [A&E] 2nd Floor)

College of Education and Allied Studies

Catalog Rights for Graduation

As long as a student maintains continuous enrollment as defined in the next paragraph, the degree requirements will remain those of the catalog in effect at the time they declare their major, minor, or degree. However, students may elect to meet the requirements of the catalog in effect at the time of graduation. These principles are called "catalog rights."

Matriculated students who have not enrolled in classes at Cal State East Bay for two consecutive semesters (not including summer or winter sessions), and do not enroll in the third consecutive semester lose their continuous enrollment status and their graduation requirements will be governed by the catalog in effect at the time they reenter. If a student is absent due to an approved Planned Educational Leave or to attend another accredited institution of higher education, they will not lose their catalog rights as long as they are not away from Cal State East Bay for over two years.

Transfer students who attended another CSU campus and/or California Community College have Cal State East Bay catalog rights from the time they began at the other institution if they have continuous enrollment as noted above.

Note: The principle of catalog rights refers to degree requirements, not policies, fees, services, and other matters which, when they change, apply to all students. For that reason, students should check the latest online catalog.

Also Note: Requirements of certain programs (e.g., teacher credential programs) are governed by outside agencies. The requirements of these programs are subject to change based on changes dictated by these outside agencies.

Due to semester conversion, during the 2018-19 academic year only, students with rights to earlier catalogs may request rights to this Catalog for either their major or their graduation requirements or both. Forms are available on the Registrar's website.

Undergraduate Students

Students' catalog rights for their major, minor or degree are governed by the catalog in effect at the time the student declares their major, minor, or degree. Undergraduates will not lose catalog rights for graduation requirements (including general education) by declaring or changing their major if they maintain continuous enrollment.

Post-graduate & Graduate Students

Catalog rights for graduate students are governed by the catalog in effect at the time the student was admitted to their program. As noted earlier, they may select the graduation catalog when they file to graduate. Students should note, however, that there is a requirement that courses in master's programs expire after five years; see the Master's Degree Requirements section of the *Graduate Degree Requirements, Policies, & Other Information* chapter.

Diplomas

After a student has completed all degree requirements and the graduation evaluator has verified their completion, their degree will be conferred and their diploma will be ordered. The final graduation evaluation process typically takes up to **three months following the posting of grades from the student's last semester of graduation candidacy**. The diploma will be mailed to the student's permanent address of record with the University 6-8 weeks after the degree has been awarded.

A diploma is an official document containing the embossed seal of Cal State East Bay, the student's name, the degree conferred and date, major(s) completed in the degree conferred, any concentrations or minors completed, and the signatures of state and University officials. It is not reproducible or available in multiple copies. Students can obtain multiple copies of their record by ordering transcripts which also show degrees, majors and concentrations, as well as other information. If a student needs proof of completion of their degree before receiving their diploma, they may request a verification of graduation or a transcript from the *Office of the Registrar*.

Should a student change their name, they may request that a new diploma be issued with their new name if:

1. they return the originally issued diploma to the *Office of the Registrar*,
2. they provide legal documents confirming their legal name change, and
3. the student pays the fee for a new diploma.

After the degree is posted to a student's permanent record, a student's diploma and transcript cannot be altered by adding additional options, or by grade changes, and/or withdrawals. The University protects the integrity of its transcripts and will not rewrite history unless a University error has occurred.

Graduate Admission, Enrollment & Fees

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- General Enrollment Policies & the MyCSUEB Enrollment System
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- Determination of Residency for Tuition Purposes
- Residency Determination & Nonresident Tuition
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Welcome Prospective Graduate & Post-baccalaureate Students!

There are four steps to the application process for most prospective graduate and post-baccalaureate students:

1. Applicants must submit an online CSU graduate application for admission at **CALSTATE Apply**

2. Most graduate degree programs at Cal State East Bay also require that an applicant complete a separate departmental application.
3. Cal State East Bay will determine an applicant's eligibility based on criteria discussed in this chapter.
4. The University will notify the student of the decision.

Admission to the University

All graduate and post-baccalaureate applicants (e.g., Ed.D. applicants, joint Ph.D. applicants, master's degree applicants, those seeking educational credentials or certificates) must file a complete graduate application as described in the graduate and post-baccalaureate admission materials at: www.calstate.edu/apply. Applicants who completed undergraduate degree requirements and graduated the preceding term are also required to complete and submit an application and pay the \$55 nonrefundable application fee at the time of submission. The application fee cannot be transferred to a future term; each application filed requires an application fee payment. Since applicants for post-baccalaureate programs may be limited to the choice of a single campus on each application, re-routing to alternate campuses or later changes of campus choice are not guaranteed. To be assured of initial consideration by more than one campus, it is necessary to submit separate applications (including fees) to each. Applicants must submit their applications through *CALSTATE Apply* unless submission of an electronic application is impossible. An electronic version of the CSU graduate application is available at www.calstate.edu/apply.

Depending on the objective, the CSU will consider an application for admission as follows:

- General Admission to the University
- Admission to a Graduate Program

Note: If the application fee is not received by the deadline, the application for admission will be cancelled. Please note, if applying to a future term, any past due application fees are still required and must be paid prior to enrollment in classes.

Transcripts

Request official transcripts from all colleges and universities attended be sent to Cal State East Bay's Office of Admission. (This includes all institutions before and after a student's bachelor's degree.) If a student's graduate program also requires official transcripts, they will also need to send additional copies directly to their department.

These and other CSU admissions requirements are subject to change as policies are revised and laws are amended. The CSU website, www.calstate.edu, and the CSU admissions portal, www.calstate.edu/apply, are good sources of the most up-to-date information.

Graduate & Post-Baccalaureate Application Procedures & Filing Deadlines

Graduate and Post-baccalaureate Application Procedures

All graduate and post-baccalaureate applicants (e.g., Ed.D. applicants, joint Ph.D. applicants, master's degree applicants, those seeking educational credentials or certificates) must file a complete graduate

application as described in the graduate and post-baccalaureate admission materials at:
www.calstate.edu/apply.

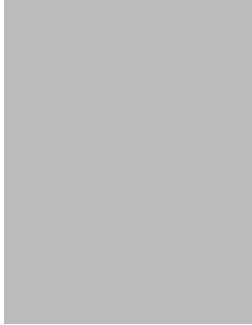
Applicants who completed undergraduate degree requirements and graduated the preceding term are also required to complete and submit an application and the \$55 nonrefundable application fee. Applicants must submit their applications through www.calstate.edu/apply unless submission of an electronic application is impossible. An electronic version of the CSU graduate application is available at: www.calstate.edu/apply.

Applicants must also submit all supplemental application materials required by their particular program. Please see the individual program chapters of this catalog or the department websites for required admissions materials.

Application Filing Periods

Application filing periods are also listed at: www.csueastbay.edu/prospective/how-to-apply/application-and-document-deadlines

(Not all campuses/programs are open for admission to every term.)			
Term	Applications Filing Period	* ALL Official Transcripts Due By	Filing Period Duration
Summer	February 1-28		Some departments may accept applications after the deadline on a case-by-case basis; check the department website for details. Programs with earlier application deadlines are indicated below: • Biological Science, MA/MS - application closes April 15 • Computer Science, MS - application closes May 1 • Social Work, MSW - application closes January 17 • Speech Pathology and Audiology, MS - application closes February 1
Fall Semester	October 1 - June 1 International May 1	July 15	
Spring Semester	August 1 - November 1 International - October 1	October 15	



Some graduate and credential programs may require departmental applications and other supplemental application materials. Please check with the department for details. Learn more at www.csueastbay.edu/graduate-admission.

Note: If applying after the initial filing period, consult the campus admission office for current information. Similar information is conveniently available at: calstate.edu/apply. Apply early since enrollment may be limited for some programs. The application filing periods are listed on the Application and Document Deadlines page at www.csueastbay.edu/deadlines.

International Graduate Students

Students who will be studying on an F1/J1 visa or any applicants with transcripts from outside of the U.S. should view www.csueastbay.edu/international for submission deadlines. The university has established deadlines to ensure that all application materials will be processed in time to allow international students to make the necessary passport, visa, travel, and other arrangements to reach the campus before the start of the term of admission. Current deadlines applicable to international student admission can be found on the university website or by contacting the International Admissions Office: iao@csueastbay.edu

Academic Records *

Certificates, diplomas, mark sheets, transcripts, and test scores must be sent directly from the issuing institution to the International Admissions Office to be considered official. The International Admissions Office reserves the right to determine what constitutes an official document. Certified English translations must accompany all non-English original documents. Documents submitted are the property of Cal State East Bay and will not be returned.

Graduate & Post-Baccalaureate Admission Requirements

Admission Requirements

Graduate and post-baccalaureate applicants may apply for a degree objective, a credential or certificate objective. Depending on the objective, the CSU will consider an application for admission as follows:

General Requirements

The minimum requirements for admission to graduate and post-baccalaureate studies at a California State University campus are in accordance with University regulations as well as Title 5, Chapter 1, Subchapter 3 of the California Code of Regulations.

Specifically, a student shall at the time of enrollment:

1. have completed a four-year college course of study and hold an acceptable baccalaureate degree from an institution accredited by a regional accrediting association, or shall have completed equivalent academic preparation as determined by appropriate campus authorities;
2. be in good academic standing at the last college or university attended;
3. have earned a grade point average of at least 2.5 on the last degree completed by the candidate or have attained a grade point average of at least 2.5 (A=4.0) in the last 60 semester (90 quarter) units attempted; and
4. satisfactorily meet the professional, personal, scholastic, and other standards for graduate study, including qualifying examinations, as appropriate campus authorities may prescribe. In unusual circumstances, a campus may make exceptions to these criteria.

(These and other CSU admission requirements are subject to change as policies are revised and laws are amended. The CSU website www.calstate.edu and the CSU admissions portal www.calstate.edu/apply are good sources of the most up-to-date information.)

English Language Requirement

All undergraduate, post-baccalaureate and graduate applicants whose native language is not English, and who have not attended schools at the secondary level or above for at least three years full time where English is the principal language of instruction, must demonstrate proof of English proficiency.

CSU minimum TOEFL standards are:

- Undergraduate: 61 - INTERNET, 500- PAPER
- Graduate: 80 - INTERNET, 550 - PAPER

Cal State East Bay standards for Undergraduate Students are:

- TOEFL (Test of English as a Foreign Language) score of 525 (or 197 computer-based or 61 Internet-based) or above.
- An overall IELTS (International English Language Testing System) score of 6.0 or above.
- Transferred from a U.S. college with 60 or more semester units with a minimum grade point average of 2.4, and have completed a transfer course in each of the following general education areas with a grade of 2.0 or better: English composition, speech, critical thinking, and mathematics.

Cal State East Bay standards for Graduate Students are:

- An official transcript showing graduation with a bachelor's degree from a U.S. college or university, or an international college or university where English is the principal language of instruction, or an official letter from the college or university certifying that English was the language of instruction.
- A TOEFL (Test of English as a Foreign Language) score of 550 (213 computer-based or 79 Internet-based; 92 for Master's of Science degree in Economics) or above.

- An overall test score from IELTS (International English Language Testing System) exam of 6.5 or above for graduate students. A score of 7 or above is required for international students seeking a Master's of Science degree in Economics.

Some majors may require a higher score.

Note: All test scores must be sent directly from the testing institution. Cal State East Bay's International Admission Office contacts are located at: <http://www.csueastbay.edu/prospective/how-to-apply/international-student-admission>.

English Language Requirement Waiver

Waiver for English Proficiency Requirement

The English proficiency requirement for post-baccalaureate and graduate applicants may be waived by presenting the following:

- an official transcript showing graduation with a bachelor's degree from a U.S. college or university, or
- an official transcript from an international college or university indicating English is the principal language of instruction, or
- an official letter from the college or university certifying that English was the language of instruction.

Educational Objective

Declaration of Educational Objective

Each applicant must have a declared educational objective when the application is filed. International students on F-1 student visas may be admitted as "Conditionally Classified Graduate," "Classified Graduate," or "Classified Post-Baccalaureate" students. They may not be admitted as "Unclassified Post-Baccalaureate" students.

Note: Some graduate programs may require admission tests such as the GMAT or GRE, a supplemental application, a resume and/or other supplemental information. Please consult the individual graduate program for any additional application or admission requirements.

Graduate & Post-Baccalaureate Admission Categories

Students who meet the minimum requirements for graduate and post-baccalaureate studies may be considered for admission in one of the four following categories:

Graduate Classified

To pursue a graduate degree, applicants are required to fulfill all of the professional, personal, scholastic, and other standards, including qualifying examinations, prescribed by the campus; or

Graduate Conditionally Classified

Applicants may be admitted to a graduate degree program in this category if, in the opinion of appropriate campus authority, deficiencies may be remedied by additional preparation; or

Post-Baccalaureate Classified, e.g. admission to an education credential program

Persons wishing to enroll in a credential or certificate program, will be required to satisfy additional professional, personal, scholastic, and other standards, including qualifying examinations, prescribed by the campus; or

Post-Baccalaureate Unclassified

Cal State East Bay does not offer admission to unclassified post-baccalaureate students.

Admission to Graduate Degree Programs

Most graduate degree programs at Cal State East Bay also require that an applicant complete a separate departmental application. These programs may require that the student meet additional admission requirements above and beyond those required for admission to the University. Contact the department offering the program to obtain a departmental application form and information on departmental application deadlines and admission requirements.

Regularly matriculated students pursuing a state-supported master's degree at Cal State East Bay may not be simultaneously enrolled in a CSUEB University Extension degree program. Students interested in pursuing multiple master's degrees should consult their academic department or e-mail: gradadmission@csueastbay.edu if unsure of the program's classification. *Also see the Degree Requirements, Policies, & Other Information chapter.*

For information on changing major, degree, or credential objectives after admission, see the *Change of Educational Objective* section in the *Graduate Degree Requirements, Policies, & Other Information* chapter.

Credit for Transferred Courses

A minimum of seventy (70) percent of the total units required by the degree program must be completed in residence while enrolled as an admitted graduate student at Cal State East Bay.

Note: The number of transferable units for each degree program will be rounded to the nearest whole number of units.

Units taken while at other schools, while an undergraduate with permission to take graduate courses, while pursuing an additional baccalaureate degree in "Unclassified Post-Baccalaureate" status, while enrolled in another graduate degree program, or while enrolled in Continuing Education courses-including Open University courses-do not count as resident units. Courses offered in special session are considered resident units. Please note that individual graduate programs may require more than 70 percent

of the required degree units in residence, so check the particular program's section of this catalog for these requirements.

To request transfer credit:

- The student must have taken the course after earning a bachelor's degree;
- Their department must accept the course(s) as relevant to their degree program;
- The institution at which the student took the course must customarily grant the level of credit for the course (graduate or upper division) that the student wishes to receive for it at Cal State East Bay;
- The student must have taken the course within five calendar years immediately preceding the receipt of their degree.

A student may also apply units earned through the CSU International Programs that meet the criteria outlined above. No more than half of the units required for the degree may be earned in this manner. If a student also wishes to apply transfer credits to their degree, the total of the transfer and International Program units may not exceed one-half of those required for the degree. If a student completes their capstone experience (thesis, project, or comprehensive examination) while in the International Programs, this must be done under the supervision of at least one Cal State East Bay faculty member.

In general, Cal State East Bay does not allow the use of credit-by-examination from challenged courses for master's degree requirements. Exceptions may be established by individual departments and must be noted in the degree description in the University Catalog. They are governed by the following policies:

- The student must pass the exam challenging the course with a grade of "B-" or better;
- Not more than 9 units of credit-by-examination may be applied to the degree.

Transitory Admission Eligibility

Graduate students are eligible for Intrasystem Concurrent Enrollment, Intrasystem Visitor Enrollment, and Cross-Registration with the University of California, Berkeley, and selected other East Bay colleges.

Intrasystem Concurrent Enrollment

Students who are enrolled at any campus of the California State University may apply to attend another campus while concurrently enrolled at their home campus.

Eligibility Requirements:

- Must have completed at least one term at the home campus as a matriculated student, or will be enrolled concurrently in such status,
- Must be, or have been, enrolled in an authorized graduate program at the home campus, and
- Must be in good standing at the last college attended.

Intrasystem Visitor Enrollment

Students of any campus of The California State University may apply for admission as a visiting student at another campus for a period of one term.

Eligibility Requirements:

- Have completed at least one term at the home campus as a matriculated student,
- Are, or have been, enrolled in an authorized graduate program at the home campus, and
- Are in good standing at the last college attended.

For further information contact the *Office of Admission* at (510) 885-3500 or admissions@csueastbay.edu.

General Enrollment Policies & the MyCSUEB Enrollment System

To enroll at Cal State East Bay, students must be admitted to the University.

- Enrollment is complete only when all enrollment requests have been properly recorded and students have paid all fees, deposits, and charges. Dates for enrolling in *MyCSUEB*, the Cal State East Bay enrollment system, are published on the University website under Important Dates.
- Students are given credit only for those courses in which they are officially enrolled in at the conclusion of the Add/Drop period, except for any course which they have officially filed a Withdrawal form(s) and received an approved withdrawal.
- Students will be held responsible for completing all courses for which they are enrolled, except for those courses from which they withdrew.
- If students enroll in a course and do not attend initial class meetings, they may be dropped from the class if demand for the course exceeds capacity. Departments following this practice will make reasonable efforts to inform students of this action but students should not assume that non-attendance will result in them being automatically dropped and verify the accuracy of their schedule in *MyCSUEB* before the end of the Add/Drop period. It is the student's responsibility to check *MyCSUEB* to verify their course enrollment each term.
- The University does not guarantee the availability of particular courses or sections because admission to classes is authorized only until the maximum number of students allowable in any section has been reached.

Approved by the University Academic Senate, the priority for enrollment is as follows (students must meet the criteria at the time enrollment appointments are set):

- Students authorized to receive priority enrollment
- Graduating undergraduate seniors and graduating graduate students, defined as undergraduates who have filed for graduation by the priority deadline and have 100 semester units completed, and graduate or doctoral students who have filed for graduation and/or have been advanced to candidacy by the faculty of the graduate/doctoral program)
- Students authorized to receive early enrollment
- Freshmen
- Post-baccalaureate credential and doctoral students, and conditionally classified/classified graduate students in masters programs
- Seniors
- Juniors

- Sophomores
- Second baccalaureate, post-baccalaureate certificate program, and unclassified post-baccalaureate students
- AB 386 Students (online students from other CSU Campuses)

The priority for enrollment for students enrolling in 600-level and 700-level courses is as follows:

- All graduate students
- Undergraduate students majoring in the department concerned
- All other students

Required Units for Full-time Graduate Students

The following classifications apply to *graduate* students enrolled in the fall and spring semesters (not University Extension non-degree programs and shorter sessions including summer): (*see Errata page for content update*)

1. Full-time enrollment for "Graduate" students and "Classified Post-baccalaureate" students is 6 or more units for university enrollment calculation purposes.
2. Full-time enrollment for "Graduate" students and "Classified Post-baccalaureate" students is 8 or more units for financial aid.
3. Full-time enrollment for "Graduate" students and "Classified Post-baccalaureate" students is 8 or more units for F-1 and J-1 visa students.
4. Full-time enrollment for veterans (or dependents of disabled or deceased veterans), or reservists (under Chapter 30, 31, 33, 34, 35, or 106) is 6 or more units, according to V.A. regulations.

Note: Each semester, veterans and eligible dependents should consult the Veteran Affairs Coordinator before the first day of classes and submit their forms requesting certification of enrollment for V.A. benefits. Also, graduate students who apply for Veterans' Benefits (or for benefits as dependents of disabled or deceased veterans), international students wishing Department of Homeland Security certification, student athletes wishing to compete in intercollegiate sports, and students on most types of financial aid must be enrolled in courses that apply to a definite program (master's degree and/or credential).

Enrollment & Degree Progress

Graduate students who apply for the following must enroll in courses that satisfy their degree program (master's degree and/or credential):

- Veterans' Benefits (or for benefits as dependents of disabled or deceased veterans),
- International students wishing INS certification,
- Student athletes wishing to compete in intercollegiate sports, and
- Students on most types of financial aid.

Enrollment for Veterans & Reservists

Full-time enrollment for veterans or reservists (under Chapter 30, 31, 33, 34, 35, or 106) is 12 or more semester units, according to V.A. regulations. Each semester, veterans and reservists should consult the

Veteran Affairs Coordinator before the first day of classes and submit their forms requesting certification of enrollment for V.A. benefits.

Note: Undergraduate and graduate students who apply for Veterans' Benefits must be enrolled in courses that apply to a definite program (baccalaureate or master's degree and/or credential).

Dependents of Veterans

Full-time enrollment for dependents of disabled or deceased veterans (under Chapter 30, 31, 33, 34, 35, or 106) is 12 or more semester units, according to V.A. regulations. Each semester, eligible dependents should consult the Veteran Affairs Coordinator before the first day of classes and submit their forms requesting certification of enrollment for V.A. benefits.

Note: Undergraduate and graduate students who apply for benefits as dependents of disabled or deceased veterans, must be enrolled in courses that apply to a definite program (baccalaureate or master's degree and/or credential).

Also see: Military & Veterans Information & Services chapter.

International Admission Office

All matters pertaining to the admission of international students are handled by the International Admissions Office. Students from other countries should consult with the International Admissions Office regarding visas, eligibility for employment, and any special academic requirements.

The CSU must assess the academic preparation of international students. For this purpose, "international students" include those who hold U.S. temporary visas as students, exchange visitors, or in other non-immigrant classifications. Cal State East Bay uses separate requirements and application filing dates in the admission of "foreign students". Verification of English proficiency (see below), financial resources, and academic performance are each important considerations for admission.

Prospective Graduate Students

Graduate applicants must hold a degree equivalent to a four-year bachelor's degree obtained from a recognized university. Applicants must also have the equivalent of a 2.50 grade point average, or higher, in their last two years of college-level courses.

International (Foreign) Student Admission Requirements

General Requirements for All International Applicants

The CSU and Cal State East Bay must assess the academic preparation of international students. For this purpose, "international students" include those who hold U.S. visas as students, exchange visitors, or in other nonimmigrant classifications.

The CSU uses separate requirements and application filing dates in the admission of "international students." Verification of English proficiency (see the section on the English Language Requirement for

undergraduate applicants), financial resources, and academic performance are each important considerations for admission. Each applicant must have a declared educational objective (major) when the application is filed. Academic records from foreign institutions must be on file before the start of the semester of admission and, if not in English, must be accompanied by certified English translations.

Priority in admission is given to residents of California for majors that are impacted or for programs with limited openings.

Graduate & Post-Baccalaureate Applicants

Graduate applicants must hold a degree equivalent to a four-year bachelor's degree obtained from a recognized university. Applicants must also have the equivalent of a 2.50 grade point average, or higher, in their last two years of college-level courses.

In addition, each applicant must have a declared educational objective when the application is filed. International students on F-1 student visas may be admitted as "Conditionally Classified Graduate," "Classified Graduate," or "Classified Post-Baccalaureate" students. They may not be admitted as "Unclassified Post-Baccalaureate" students.

Note: Some graduate programs may require admission tests such as the GMAT or GRE and a supplemental application. Please consult the individual graduate department for any additional application or admission requirements.

Enrollment Requirements for F-1 & J-1 Visa Students

Graduate students on a student visa are required by the U.S. Citizenship and Immigration Services to take a minimum of 8 units per semester that will count towards their degree as a "graduate" student, a "classified post-baccalaureate" student, or an "unclassified post-baccalaureate" student with an approved course of study.

Note: Enrollment in courses through Open University (University Extension) may not count for visa certification purposes.

International students should contact the Center for International Education (cie@csueastbay.edu) for information on matters affecting visa status, eligibility for employment, and any special academic requirements for international students.

Academic Records of International Students

Certificates, diplomas, mark sheets, transcripts, and test scores *must be sent directly from the issuing institution* to the International Admissions Office to be considered official. The International Admissions Office reserves the right to determine what constitutes an official document. Certified English translations must accompany all non-English original documents. Documents submitted are the property of Cal State East Bay and will not be returned.

Fee Waivers & Exemptions

The California Education Code provides for the waiver of mandatory systemwide tuition fees as follows:

Section 66025.3 -

Dependent eligible to receive assistance under Article 2 of Chapter 4 of Division 4 of the Military and Veterans Code; child of any veteran of the United States military who has a service-connected disability, has been killed in service, or has died of a service-connected disability, and meets specified income provisions; dependent, or surviving spouse who has not remarried of any member of the California National Guard who, in the line of duty, and while in the active service of the state, was killed, died of a disability resulting from an event that occurred while in the active service of the state, or is permanently disabled as a result of an event that occurred while in the active service of the state; and undergraduate student who is a recipient of a Medal of Honor, or undergraduate student who is a child of a recipient of a Medal of Honor who is no more than 27 years old, meets the income restriction and California residency requirement. The waiver of tuition or fees under this section applies only to a person who is determined to be a resident of California pursuant to Chapter 1 (commencing with Section 68000) of Part 41.

Section 66602 -

A qualifying student from the California State University who is appointed by the Governor to serve as Trustee of the California State University for the duration of his or her term of office.

Section 68120 -

Surviving spouse or child of a deceased California resident who was employed by a public agency, or was a contractor or an employee of a contractor, performing service for a public agency, and was killed in the performance of his/her principal duties of active law enforcement or fire suppression and prevention duties (referred to as Alan Pattee Scholarships). A person who qualifies for the waiver under this section as a surviving child of a contractor or of an employee of a contractor, who performed services for a public agency must have enrolled as an undergraduate student at the California State University and meets income restriction requirement.

Section 68121 -

A qualifying student enrolled in an undergraduate program who is the surviving dependent of any individual killed in the September 11, 2001, terrorist attacks on the World Trade Center in New York City, the Pentagon building in Washington, D.C., or the crash of United Airlines Flight 93 in southwestern Pennsylvania, if the student meets the financial need requirements set forth in Section 69432.7 for the Cal Grant A Program and either the surviving dependent or the individual killed in the attacks was a resident of California on September 11, 2001.

Note: Students who may qualify for the above benefits should contact the Admissions/Registrar's Office for further information and/or an eligibility determination: email admissions@csueastbay.edu or call (510) 885-3500.

The California Education Code provides for the following nonresident tuition exemptions:

Section 68075.7 -

A nonresident student is exempt from paying nonresident tuition or any other fee that is exclusively applicable to nonresident students if the student (1) resides in California, (2) meets the definition of "covered individual" as defined in either: (A) Section 3679(c)(2)(A) or (B)(ii)(I) of Title 38 of the United States Code, as that provision read on January 1, 2017; or (B) Section 3679(c)(2)(B)9(i) or (ii)(II) of Title 38 of the United States Code, as that provision read on January 1, 2017; and (3) is eligible for education benefits under either the federal Montgomery GI Bill-Active Duty program or the Post-9/11 GI Bill program as each read on January 1, 2017.

Section 68122 -

A student who is a victim of trafficking, domestic violence, and other serious crimes who has been granted T or U visa status shall be exempt from paying nonresident tuition to the same extent as individuals who are admitted to the United States as refugees under Section 1157 of Title 8 of the United States Code.

Section 68130.5 -

A student, other than a nonimmigrant alien, who is not a resident of California is exempt from paying nonresident tuition if the student meets the requirements of (1) through (4), below:

(1) Satisfaction of the requirements of either subparagraph (A) or subparagraph (B):

(A) A total attendance of, or attainment of credits earned while in California equivalent to, three or more years of full-time attendance or attainment of credits at any of the following:

(i) California high schools.

(ii) California high schools established by the State Board of Education.

(iii) California adult schools established by a county office of education, a unified school district or high school district, or the Department of Corrections and Rehabilitation (subject to the class hours' requirement).

(iv) Campuses of the California Community Colleges (subject to the credit requirements).

(v) A combination of those schools set forth in clauses (i) to (iv), inclusive.

(B) Three or more years of full-time high school coursework, and a total of three or more years of attendance in California elementary schools, California secondary schools, or a combination of California elementary and secondary schools.

(2) Satisfaction of any of the following:

(A) Graduation from a California high school or attainment of the equivalent thereof.

(B) Attainment of an associate degree from a campus of the California Community Colleges.

(C) Fulfillment of the minimum transfer requirements established for the California State University for students transferring from a campus of the California Community Colleges.

(3) Registration as an entering student at, or current enrollment at, an accredited institution of higher education in California not earlier than the fall semester or quarter of the 2001-02 academic year.

(4) In the case of a person without lawful immigration status, the filing of an affidavit with the institution of higher education stating that the student has filed an application to legalize his or her immigration status, or will file an application as soon as he or she is eligible to do so.

Students who may qualify for any of these benefits listed above can contact the following offices:

Office of Admission

(510) 885-3500; FAX: (510) 885-4059; admissions@csueastbay.edu

Graduate Admission

- **For inquiries regarding admission requirements for a specific program contact the academic department directly.**
- **For University Admission requirements questions applicants may e-mail gradadmission@csueastbay.edu**

Office of International Admission

(510) 885-7571; FAX: (510) 885-2787; iao@csueastbay.edu

Fees & Debts Owed to the Institution

Should a student or former student fail to pay a fee or a debt owed to the institution, including tuition and student charges, the institution may *"withhold permission to register, to use facilities for which a fee is authorized to be charged, to receive services, materials, food or merchandise or any combination of the above from any person owing a debt"* until the debt is paid (see Title 5, California Code of Regulations, Sections 42380 and 42381).

Prospective students who register for courses offered by the University are obligated for the payment of charges and fees associated with registration for those courses. **Note:** *Failure to cancel registration in any course for an academic term prior to the first day of the academic term gives rise to an obligation to pay student charges and fees including any tuition for the reservation of space in the course.*

The institution may withhold permission to register or to receive official transcripts of grades or other services offered by the institution from anyone owing fees or another debt to the institution. The institution may also report the debt to a credit bureau, offset the amount due against any future state tax refunds due the student, refer the debt to an outside collection agency and/or charge the student actual and reasonable collection costs, including reasonable attorney fees if litigation is necessary, in collecting any amount not paid when due.

If a person believes he or she does not owe all or part of an asserted unpaid obligation, that person may contact **Student Financial Services, (510) 885-3767**, or the individual to which the business office may refer

the person, will review all pertinent information provided by the person and available to the campus and will advise the person of its conclusions.

Acceptable Methods of Payment

Credit Cards, Cash, Check

Students may use credit cards, cash, or check for payment of registration fees. See the current *MyCSUEB* for additional information. The following credit cards are accepted:

- American Express,
- Discover,
- Visa, and
- MasterCard.

Installment Payment Plans

Installment Payment Plans have been authorized if students are assessed Nonresident Tuition or Tuition Fees. See the current *MyCSUEB* for additional information about payment plans.

Payment of Special Fees

The Cashier's Office is located at SA 1200 in the lobby of the Student Services and Administration building accepts in-person cash or check payments for all fees due to Cal State East Bay, such as tuition fees, lab, breakage, test, and parking fees (most payments can also be mailed).

Note: For more information and important dates see the Information About Paying Fees page on the University website.

Determination of Residency for Tuition Purposes

University requirements for establishing residency for tuition purposes are independent from those of other types of residency, such as for tax purposes, or other state or institutional residency. These regulations were promulgated not to determine whether a student is a resident or nonresident of California, but rather to determine whether a student should pay university fees on an in-state or out-of-state basis. A resident for tuition purposes is someone who meets the requirements set forth in the Uniform Student Residency Requirements. These laws governing residency for tuition purposes at the California State University are California Education Code sections 68000-68085, 68120-68133, and 89705-89707.5, and California Code of Regulations, Title 5, Subchapter 5, Article 4, sections 41900-41916. This material can be viewed by accessing the California State University's website at www.calstate.edu/GC/resources.shtml.

Each campus' Admissions Office is responsible for determining the residency status of all new and returning students based on the Application for Admission, Residency Questionnaire, Reclassification Request Form and, as necessary, other evidence furnished by the student. A student who fails to submit adequate information to establish eligibility for resident classification will be classified as a nonresident.

Generally, establishing California residency for tuition purposes requires a combination of physical presence and intent to remain indefinitely in the State of California. An adult who, at least 366 days prior to the residency determination date for the term in which enrollment is contemplated, can demonstrate both physical presence in the state combined with evidence of intent to remain in California indefinitely may establish California residency for tuition purposes. A minor normally derives residency from the parent(s) with whom he/she resides or most recently resided.

Evidence demonstrating intent may vary from case to case but will include, and is not limited to, the absence of residential ties to any other state, California voter registration and voting in California elections, maintaining California vehicle registration and driver's license, maintaining active California bank accounts, filing California income tax returns and listing a California address on federal tax returns, owning residential property or occupying or renting a residence where permanent belongings are kept, maintaining active memberships in California professional or social organizations, and maintaining a permanent military address and home of record in California.

A nonresident student seeking reclassification is required to complete a supplemental questionnaire that includes questions concerning his/her financial independence. Financial independence is required, in addition to physical presence and intent to remain indefinitely, to be eligible for reclassification. Financial independence is established if in the calendar year the reclassification application is made - and in any of the three calendar years preceding the reclassification application - the student:

- has not and will not be claimed as an exemption for state and federal tax purposes by his/her parent(s);
- has not and will not receive more than \$750 per year in financial assistance from his/her parent(s); and
- has not lived and will not live longer than six weeks in the home of his/her parent(s).

A nonresident student who has been appointed as a graduate student teaching assistant, a graduate student research assistant, or a graduate student teaching associate on any CSU campus and is employed on a 0.49 or more time basis is exempt from the financial independence requirement.

Non-citizens establish residency in the same manner as citizens, unless precluded by the Immigration and Nationality Act from establishing domicile in the United States.

Exceptions to the general residency requirements are contained in California Education Code sections 68070-68085 and California Code of Regulations, Title 5, Subchapter 5, Article 4, sections 41906-41906.6, 41910. Whether an exception applies to a particular student can only be determined after the submission of an application for admission and, as necessary, additional supporting documentation. Because neither the campus nor Chancellor's Office staff may give advice on the application of these laws, applicants are strongly urged to review the material for themselves and consult with a legal advisor.

Residency determination dates are set each term. They are:

Semester Term Campuses

Fall	September 20
Winter*	January 5
Spring	January 25
Summer	June 1

* Applies only to winter term at CSU Stanislaus

CalState TEACH operates on a trimester system. The residency determination dates for CalState TEACH are as follows:

- Fall - September 20
- Spring - January 5
- Summer - June 1

Nonresident Classification Appeal Process

Students classified as nonresidents may appeal a final campus decision within 30 days of notification by the campus. Information on the appeal process may be found at <http://www.calstate.edu/sas/residency/appeals.shtml>. A campus residency classification appeal must be submitted via the InfoReady online Residence Appeal Form to the California State University Chancellor's Office at:

<https://calstate.infoready4.com/#competitionDetail/1760156>

Appeals via email, fax and U.S. mail will not be accepted. A student with a documented disability that prohibits the student from submitting an appeal through the *InfoReady* site should contact Student Academic Services:

California State University
Attn: Student Academic Services
401 Golden Shore, 6th Floor
Long Beach, CA 90802-4210
Email: residencyappeals@calstate.edu

The Chancellor's Office can either decide the appeal or send the matter back to the campus for further review. Students incorrectly classified as residents or incorrectly granted an exception from nonresident tuition are subject to reclassification as nonresidents and payment of nonresident tuition in arrears. If incorrect classification results from false or concealed facts, the student is also subject to discipline pursuant to Section 41301 of Title 5 of the California Code of Regulations.

Resident students who become nonresidents or who no longer meet the criteria for an exception must immediately notify the Admissions Office. Changes may have been made in the rate of nonresident tuition and in the statutes and regulations governing residency for tuition purposes in California between the time this information is published and the relevant residency determination date. Students are urged to review the statutes and regulations stated above.

Residency Determination & Nonresident Tuition

The Office of Admission determines residence status of all new and returning students for nonresident tuition purposes. For information on the criteria used in making this determination, as well as residence determination dates, see the Application & Admissions chapter in this catalog.

Graduate Students

A nonresident student who has been appointed as one of the following on any CSU campus and is employed on a 0.49 or more time basis is exempt from the financial independence requirement:

- a graduate student teaching assistant, or
- a graduate student research assistant, or
- a graduate student teaching associate.

Note: Legal residents of California are not charged tuition, only fees. See "Nonresident Tuition" located in the Undergraduate Information section, Fees & Financial Services chapter in this catalog.

Post Baccalaureate & Graduate Schedule of Tuition and Fees 2018-2019

The CSU makes every effort to keep student costs to a minimum. Tuition and fees listed in published schedules or student accounts may need to be increased when public funding is inadequate. Therefore, CSU reserves the right, even after tuition or fees are initially charged or initial payments are made, to increase or modify any listed tuition or fees. All listed fees, other than mandatory systemwide tuition, are subject to change without notice, until the date when instruction for a particular semester or quarter has begun. All CSU-listed tuition and fees should be regarded as **estimates** that are subject to change upon approval by the Board of Trustees, the chancellor or the presidents, as appropriate. Changes in mandatory systemwide tuition will be made in accordance with the requirements of the Working Families Student Fee Transparency and Accountability Act (Sections 66028 - 66028.6 of the Education Code).

The following reflects applicable systemwide tuition and fees for semester campuses that were authorized by the Board of Trustees at the March 2017 meeting. These rates are subject to change.

All Students

Application fee (nonrefundable), payable online at the time of application via credit card, e-check or PayPal: \$55

Students are charged campus fees in addition to tuition and systemwide fees. Information on campus fees are also listed below or contact Financial Services for more information.

Graduate/Post-Baccalaureate Tuition & Fees, effective 2018-2019 ^{1,2}

	0 to 6.0 Units Per Semester	6.1 or More Units Per Semester
Tuition Fee *	\$2,082	\$3,588
Student Body Fee	64.50	64.50
Facilities Fee	3.00	3.00
University Union Fee	82.50	82.50
University Union Recreational Fee	97.50	97.50
Instructionally Related Activities Fee	12.00	12.00
Health Services Fee	187.50	187.50
Athletics Fee	52.50	52.50
Academic Excellence Fee	120.00	120.00
Photo I.D. (semester) Fee	1.50	1.50
Total	\$2,703	\$4,209

1.Fee adjustments subject to the policies established in Executive Order 661.

2.Disclaimer - Cost of Collection: Unpaid Tuition and Fees. You are subject to normal collection actions for unpaid debts including: assessment of late registration and past due fees, withholding of University services, withholding of credit for and disenrollment from some or all classes, referral of the debt to a collection agency and/or credit reporting agency, intercept of amounts due you from the State of California and/or legal action. You are obligated to pay all costs of collection, including attorney fees, collection agency fees and court costs (Please see Title 5, California Code of Regulations, Sections 42380 and 42381).

**Note: Graduate/Post Baccalaureate Tuition for the academic year (two semesters) is \$5,256 for 0 to 6.0 units per semester and \$8,268 for 6.1 or more units per semester. The total fees paid per semester will be determined by the number of units taken, including those in excess of fifteen.*

Graduate Business Professional Fee

The graduate business professional fee of **\$270 is paid on a per unit** basis in addition to basic tuition and campus fees for the following graduate business programs:

- Master of Business Administration (M.B.A.)
- Master of Science (M.S.) programs in Business Analytics (M.S.B.A.)
- Master of Science (M.S.) programs in Accountancy
- Master of Science (M.S.) programs in Business Administration
- Master of Science (M.S.) programs in Health Care Management
- Master of Science (M.S.) programs in Business and Technology
- Master of Science (M.S.) programs in Information Systems

Note: The fee is also charged for prerequisite courses taken by students who have an admission status and are enrolled in one of these programs.

Education Doctorate Tuition & Fees

Students pursuing the Education Doctorate degree pay the following fees when registering at Cal State East Bay.

Effective Fall 2018-2019 ^{1,2}		
	All Students Per Semester	Per Academic Year
Tuition Fee *	\$5,919	\$11,838
Student Body Fee	64.50	
Facilities Fee	3.00	
University Union Fee	82.50	
University Union Recreational Fee	97.50	
Instructionally Related Activities Fee	12.00	
Health Services Fee	187.50	
Athletics Fee	52.50	
Academic Excellence Fee	120.00	

Photo I.D. (semester) Fee 1.50

Total \$6,540

1.Fee adjustments subject to the policies established in Executive Order 661.

2.Disclaimer - Cost of Collection: Unpaid Tuition and Fees. You are subject to normal collection actions for unpaid debts including: assessment of late registration and past due fees, withholding of University services, withholding of credit for and disenrollment from some or all classes, referral of the debt to a collection agency and/or credit reporting agency, intercept of amounts due you from the State of California and/or legal action. You are obligated to pay all costs of collection, including attorney fees, collection agency fees and court costs (Please see Title 5, California Code of Regulations, Sections 42380 and 42381).

**Note: Applicable term tuition applies for campuses with special terms, as determined by the campus. Total college year tuition cannot exceed the academic year plus summer term tuition. The summer term tuition for the education doctorate at quarter campuses is equal to the per semester tuition listed in the table. Total tuition for the education doctorate over the college year equals the per academic year tuition plus the per semester tuition for the summer term at all CSU campuses.*

Qualified Teacher Credential Tuition & Fees

Students seeking an initial Multiple Subject, Single Subject, or Special Education teaching credential who have been admitted to a credential program with "classified" or "conditionally classified" status pay the following fees. This fee level will apply whether or not the student is simultaneously enrolled in a master's degree program.

Effective 2018-2019 ^{1,2}

	0 to 6.0 Units Per Semester	6.1 or More Units Per Semester
Tuition Fee *	\$1,932	\$3,330
Student Body Fee	64.50	64.50
Facilities Fee	3.00	3.00
University Union Fee	82.50	82.50
University Union Recreational Fee	97.50	97.50
Instructionally Related Activities Fee	12.00	12.00

Health Services Fee	187.50	187.50
Athletics Fee	52.50	52.50
Academic Excellence Fee	120.00	120.00
Photo I.D. (semester) Fee	1.50	1.50

Total	\$2,553	\$3,951

1.Fee adjustments subject to the policies established in Executive Order 661.

2.Disclaimer - Cost of Collection: Unpaid Tuition and Fees. You are subject to normal collection actions for unpaid debts including: assessment of late registration and past due fees, withholding of University services, withholding of credit for and disenrollment from some or all classes, referral of the debt to a collection agency and/or credit reporting agency, intercept of amounts due you from the State of California and/or legal action. You are obligated to pay all costs of collection, including attorney fees, collection agency fees and court costs (Please see Title 5, California Code of Regulations, Sections 42380 and 42381).

**Note: Qualified Credential Program Tuition for the academic year (two semesters) is \$4,956 for 0 to 6.0 units per semester and \$7,752 for 6.1 or more units per semester. The total fees paid per semester will be determined by the number of units taken, including those in excess of fifteen.*

Nonresident Students (U.S. and Foreign)

Nonresident Tuition of **\$396 is paid on a per unit basis** (in addition to basic tuition and systemwide fees charged all students) for all campuses. The total nonresident tuition paid per term will be determined by the number of units taken.

Note: Mandatory systemwide tuition is waived for those individuals who qualify for such exemption under the provisions of the California Education Code (see section on fee waivers).

Credit Cards:

Visa, MasterCard, American Express and Discover credit cards may be used for payment of student tuition and fees but may be subject to a non-refundable credit card processing fee.

Financial Certification Prior to Admission

Prospective International Students

International students who wish to apply for a student visa must demonstrate financial support before a letter of admission or an "I-20" or "DS-2019" form will be issued. The following forms must be submitted:

1. I-20 Letter of Consent,
2. Declaration of Finances, and

3. Health Insurance Compliance.

These forms can be downloaded from the [international students admissions page](#).

Graduate Degree Requirements, Policies, & Other Information

Requirements

- Doctoral Degree Information
- Master's Degree Requirements
- Second Master's Degree
- Dual Master's Degrees
- Certificate Programs
- Academic Course Load
- Change in Educational Objective
- Required Units for Full-time Graduate Students

Policies

- Registration Policies
- Cancellation of Registration or Withdrawal from Institution
- Requirement in Writing Proficiency
- Graduate Study Completion (All But Capstone)
- University Grading Policy
- Transferring Units as a Graduate Student
- Academic Grading Symbols
- Appealing an Inappropriate Grade
- Special Registration Petitions
- Probation and Disqualification
- Petition for Graduate Reinstatement
- Declassification from a Degree Program
- Course Requirements (Course Syllabus)
- Faculty Office Hours Policy
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- Standards of Research with Human Subjects

Definitions

- Graduate Student (defined)
- Master's Degree (defined)
- Capstone Experience
- Advancement to Candidacy
- Administrative Grading Symbols
- Grade Point Average (GPA)

Graduation

- Time to Think About Graduation
- Applying for Graduation
- Conferring Honors at Graduation
- Catalog Rights for Graduation

- SSMP & Credential Program Students Filing for Graduation
- Diplomas

Master's Degree: defined

The master's degree is awarded for completion of a planned and integrated program of advanced study earned after completion of an undergraduate degree. It recognizes that a student has mastered a particular field sufficiently to pursue creative or applied projects in that field. The minimum number of units for a Cal State East Bay master's program is 30 semester units with a grade point average of 3.0 (on a 4.0 scale), and various other requirements specified in Title 5 of the California Code of Regulations as well as requirements in this University Catalog. It typically requires at least two years of full-time study (or longer if pursued part time) beyond the bachelor's degree. Master's degrees are awarded in various disciplines as M.A. (master of arts), M.S. (master of science) or as discipline-specific degrees such as business (M.B.A), public administration (M.P.A.), or social work (M.S.W).

A master's degree provides students with a mastery of a particular area of knowledge; an ability to relate that knowledge to knowledge in other disciplines; an ability to deal systematically with the concepts, theory, and principles in new situations; an ability to formulate and deal with problems on an advanced level; methodological, technical, and communication skills essential for advanced study; an ability to undertake independent investigation and research; abilities characteristic of professional performance; and attitudes conducive to continuous intellectual and professional development.

Every master's degree program includes what is termed a capstone experience. This may include a thesis or its equivalent, a comprehensive examination, or project. Completion of the capstone experience demonstrates that students have successfully integrated the various elements of the graduate learning experience and have gained an in-depth knowledge of their discipline.

Graduate Student: defined

A student is considered a Graduate Student at Cal State East Bay if they have been admitted as:

A Post-Baccalaureate Student

A student who has been admitted after receiving a baccalaureate degree. Basic teacher credential programs constitute a separate area of post-baccalaureate work, and students in these programs are defined as "Classified Post-Baccalaureate" students.

A Master's Student

A student that has been admitted to a specific master's degree program as a "Conditionally Classified" or "Classified" student, or to an advanced credential program which can be earned in conjunction with a master's degree. Most master's degrees are designed to be completed in two years if students are attending full time. A graduate student who wishes to receive a 30-unit master's degree in two years needs to enroll in approximately 8 units for four semesters. (Eight units per semester is generally the minimum for full-time status.)

The master's degree is awarded for completion of a planned and integrated program of advanced study. It recognizes that a student has mastered a particular field sufficiently to pursue creative or applied projects in that field.

Students who have completed a graduate degree will have acquired a mastery of a particular area of knowledge; an ability to relate that knowledge to knowledge in other disciplines; an ability to deal systematically with the concepts, theory, and principles in new situations; an ability to formulate and deal with problems on an advanced level; methodological, technical, and communication skills essential for advanced study; an ability to undertake independent investigation and research; abilities characteristic of professional performance; and attitudes conducive to continuous intellectual and professional development.

Every master's degree program includes what is termed a capstone experience. This will include a thesis or its equivalent, a comprehensive examination or an applied or specialized project that documents an internship, or a case study report, a musical recital, gallery showing, or other comparable achievement. Completion of the capstone experience demonstrates that students have successfully integrated the various elements of the graduate learning experience and have gained an in-depth knowledge of their discipline.

A Doctoral Student

A student who wishes to receive a 60 semester-unit doctoral degree in Education. These students should check the Educational Leadership for Social Justice, Ed.D. program chapter in this catalog, as well as consult the Doctoral Handbook (available from the Educational Leadership Department office) for academic load information and specific degree requirements.

Graduate Certificate Programs

Admission to a Graduate Certificate Program

Students who are already enrolled in the University as post-baccalaureates (i.e., pursuing a graduate degree or credential program) may apply to a graduate certificate program. Students who are not already enrolled may apply to the University as a post-baccalaureate classified student. Applicants for graduate certificate programs must meet the minimum requirements for admission to graduate and post-baccalaureate studies that are outlined in the Graduate Admissions and Program Information section of this catalog. Applicants should also see the graduate certificate chapters of this catalog for additional admissions criteria for each specific program. It is recommended that the student seek admission, if appropriate, to a degree program within the sponsoring department so that graduate units may be taken, where permitted, for later application to the degree. No more than 9 units (or 30 percent for master's programs that are over 30 units) taken in classified post-baccalaureate status may be applied towards the requirements of a graduate degree.

Graduate Certificate Program Requirements

A graduate certificate program is a coherent set of academic courses, considerably narrower in scope and objectives than a degree, for which students can receive a certificate upon its successful completion. Most

certificate programs are oriented toward occupations and/or career skills. Each certificate program must contain a minimum of 12 units. For programs that include undergraduate courses, the minimum is 15 units. Any undergraduate courses must be at the upper-division level. Only one course below the 600-level may be taken "CR/NC" and no graduate course may be taken "CR/NC" in a certificate program unless that is the only grading pattern for the course. Students must take at least 75% of the courses and all 600-level courses at Cal State East Bay. (For certificate programs, Cal State East Bay courses may be taken through University Extension or as a regularly admitted and enrolled student.)

No student is required to complete a certificate program. Completion of a certificate program is recognized by the awarding of a certificate. There is no notation about the program on either a diploma or permanent record. (The courses will, of course, be on the student's permanent record.)

Master's Degree Requirements

A student wishing to earn a master's degree must complete the five requirements listed below:

- Fulfill the University Writing Skills Requirement;
- Be Advanced to Candidacy;
- Complete at least 30 semester units applicable to the degree. Please see specific program requirements in this catalog for the total number of units required for each master's degree program.
 - All units must be earned within the five calendar years immediately preceding the receipt of the degree. Outdated units may be accepted for one additional year with the approval of the major department and Graduate Studies. If not completed in the sixth year, currency in the subject matter of the outdated courses must be demonstrated. Courses older than seven years are only applied to the degree in exceptional circumstances.
 - A minimum of seventy (70) percent of the total units required by the degree program must be completed in residence while enrolled as an admitted graduate student at Cal State East Bay. For example, for a 30-unit master's program, 21 units in residence are required. (*Note: The number of transferable units for each degree program will be rounded to the nearest whole number of units.*) Units taken while at other schools, while an undergraduate with permission to take graduate courses, while pursuing an additional baccalaureate degree in "Unclassified Post-Baccalaureate" status, while enrolled in another graduate degree program, or while enrolled in Continuing Education courses (including Open University courses) do not count as resident units. Courses offered in special session, e.g., summer, are considered resident units. Some graduate programs may require more than 70 percent of the required degree units in residence, so check the program's section of this catalog for these requirements.
 - At least 1/2 (50%) of the units in the program must be in stand-alone 600-level courses. Up to 50% of the units may be in upper-division undergraduate courses and/or dual-listed undergraduate/graduate courses.
 - No lower division units can be counted.
 - No more than 6 units of university thesis, departmental thesis or project work can be counted.
 - No more than 8 units of independent study can be counted.

- No units counted towards the total graduate program units may be taken on a "CR/NC" basis unless they are in courses that are offered exclusively on that basis (primarily restricted to fieldwork and internship courses). This does not apply to courses taken to satisfy prerequisite or proficiency requirements or the University Writing Skills Requirement).
- Complete a program of study approved by the department, which must include a thesis, project, or comprehensive examination; and
- Earn a 3.0 grade point average in all units counted towards the degree, with a minimum course grade of "C" in every course. Any course that counts toward the degree requirements with a grade of "C-" or below will have to be repeated.

Please Note: individual master's degree program requirements may be more stringent, including minimum grade requirements, than the University requirements listed above. Please check each program's section of this catalog for specific program requirements.

Doctoral Degree Information

Cal State East Bay offers one doctoral program, the Ed.D. in Educational Leadership for Social Justice. Students accepted into this Ed.D. program should work very closely with their academic advisors to ensure that all policies and procedures are being followed. Policies and procedures for continuing student performance as well as program graduation requirements for this doctoral program are different from those required for students in master's programs. For information regarding the Doctor of Education, please see the Educational Leadership program chapter in this catalog.

Contact the department office or website directly for specific requirements and program information for the Ed.D. degree. A copy of the Doctoral Student Handbook may be requested from the Department of Educational Leadership, Arts & Education Building, Room 250, Tel: (510) 885-4145; email: edld@csueastbay.edu.

Graduation Requirement in Writing Proficiency (UWSR)

Note: This content has been changed, please see the Errata chapter for information.

In addition to the lower-division General Education requirements for writing, the California State University system requires that *all students* must demonstrate competency in writing skills as a requirement for graduation and to receive a baccalaureate, master's, or doctoral degree. This requirement was implemented system-wide in 1977. Students must satisfy the University Writing Skills Requirement (UWSR) in order to receive a degree from Cal State East Bay unless they are exempt by one of the following criteria:

1. Previously satisfied the UWSR at Cal State East Bay or at another CSU campus, Cal State East Bay will accept official certification of completion if the entire requirement, as specified by that CSU campus, was satisfied and the student was a matriculated student at that campus at the time. On some CSU campuses, the requirement is called the "Graduation Writing Assessment Requirement (GWAR)."

2. Graduated from any one of the CSU campuses; unless it is noted on the transcript that the UWSR (or GVAR) was not satisfied.
3. Received an essay score of 4.5 or higher on the GMAT or GRE or an essay score of 53 or higher on the CBEST.

Undergraduate students are required to begin steps to satisfy the University Writing Skills Requirement after completing 60 semester units. Students who do not enroll in an appropriate course or register to take the Writing Skills Test in their first semester after completing 60 units will have a registration hold placed. The hold will be lifted as the student progresses towards completion of this requirement. *Note: Undergraduate students cannot satisfy this requirement before completing 60 units. For undergraduate students, completion of GE Area A2 and ENGL 200 or another approved second composition course, which are graduation degree requirements, is also required before attempting to satisfy the UWSR.*

To satisfy the requirement at Cal State East Bay, students may do one of the following:

- **Option One:** Register for and pass the Writing Skills Test. See Writing Skills Test (Option One) below.
- **Option Two:** Enroll in and pass a first-tier writing course (ENGL 300 or ENGL 301) and possibly a second-tier course, as well. See Course (Option Two) below.

Writing Skills Test (Option One)

The Writing Skills Test (WST) consists of an analytic essay that requires students to demonstrate that they can think and write critically. A score of Clear Competence (8) is needed to meet the requirement. Students who do not meet receive the Clear Competence designation on the first attempt have only one opportunity to take it again; a score of Clear Competence on the second attempt satisfies the requirement. If both tests are scored as "Limited Competence (6)", they will be required to take the course option (see below). If one or both scores is "Developing Competence (7)", they need only take a second-tier course to satisfy the UWSR (see below).

Note: There is a fee for the WST. See the Fees & Financial Services chapter for more information.

Course (Option Two)

ENGL 300 and ENGL 301 are the first-tier writing courses designed to help students meet the University Writing Skills Requirement. Students who have not attempted the WST or those who have taken the Writing Skills Test (WST) and have received Limited Competence (6) must take either ENGL 300 or ENGL 301 and perhaps a second-tier writing course as well. Students who have not taken the WST twice may take it even when enrolled in a writing skills course. Generally speaking, ENGL 300 is intended for native speakers of English, while ENGL 301 is intended for non-native speakers. Based on end-of-course portfolio evaluation scores, at the end of the first-tier course they will be advised as to their next step, which will involve one of the following: they may be found to have met the UWSR requirement altogether; they may be directed to enroll in a second-tier course; or, they may be directed to repeat the first tier course.

Generally, two second-tier writing courses are regularly offered: ENGL 302 and MKTG 305. Students who passed the quarter-based equivalents to these courses (ENGL 3003 and MKTG 3495) prior to fall 2000 may not have met the UWSR. For more information on these courses, contact the individual

department. Courses approved for second-tier writing are listed here: Second Tier Courses. Students who pass a second-tier writing course with a C- or better (or "CR" if taken as CR/NC) have satisfied the UWSR.

Students who have taken the first-tier writing course three times consecutively, have not passed, and have a letter of good faith effort from their most recent first-tier instructor may apply to the Dean of Academic Programs and Services for a waiver of the UWSR. If a waiver is granted, the student's permanent record will note that they were allowed to graduate without having satisfied the UWSR. Students who do not satisfy the requirement and do not have a waiver approved will not be allowed to graduate. Contact the Dean of Academic Programs and Services for information on this waiver at (510) 885-2990.

If a student receives a grade of "D+" or "D" in a second-tier writing course (taken Fall Quarter, 2000 or later), they may appeal to the Dean of Academic Programs and Services for a waiver of the UWSR. If a waiver is granted, their permanent record will note that they were allowed to graduate without having satisfied the UWSR. Students who do not satisfy the requirement and do not have a waiver approved will not be allowed to graduate. Contact the Dean of Academic Programs and Services for information on this waiver at (510) 885-2990.

Students who have a verified disability and would like to request accommodations to assist them in satisfying this requirement should contact the Accessibility Services in the Library Complex 2440 or call (510) 885-3868 (phone/TTY).

For more information on meeting the University Writing Skills Requirement, see the Testing Office website or call (510) 885-3661.

Graduate Academic Course Load

A graduate student who wishes to receive a master's degree in two years needs to enroll in approximately 8 units per semester (15 units per year in a 30-unit master's program). 8 units per semester is the minimum for financial aid and reporting purposes. A graduate student who wishes to receive a doctoral degree in Educational Leadership should check the Educational Leadership for Social Justice, Ed.D. program chapter in this catalog, as well as consult the Doctoral Handbook (available from the Department office) for academic load information.

Required Units for Full-time Graduate Students

The following classifications apply to *graduate* students enrolled in the fall and spring semesters (not University Extension non-degree programs and shorter sessions including summer): (*see Errata page for content update*)

1. Full-time enrollment for "Graduate" students and "Classified Post-baccalaureate" students is 6 or more units for university enrollment calculation purposes.
2. Full-time enrollment for "Graduate" students and "Classified Post-baccalaureate" students is 8 or more units for financial aid.

3. Full-time enrollment for "Graduate" students and "Classified Post-baccalaureate" students is 8 or more units for F-1 and J-1 visa students.
4. Full-time enrollment for veterans (or dependents of disabled or deceased veterans), or reservists (under Chapter 30, 31, 33, 34, 35, or 106) is 6 or more units, according to V.A. regulations.

Note: Each semester, veterans and eligible dependents should consult the Veteran Affairs Coordinator before the first day of classes and submit their forms requesting certification of enrollment for V.A. benefits. Also, graduate students who apply for Veterans' Benefits (or for benefits as dependents of disabled or deceased veterans), international students wishing Department of Homeland Security certification, student athletes wishing to compete in intercollegiate sports, and students on most types of financial aid must be enrolled in courses that apply to a definite program (master's degree and/or credential).

Advancement to Candidacy

"Advancement to Candidacy" is a status which recognizes completion of substantial progress towards a student's graduate degree. A student becomes eligible for Advancement to Candidacy when they:

- have become a "Classified" graduate student in good standing;
- have completed at least 9 semester units of 600-level coursework with a minimum 3.0 GPA;
- have designed a formal program of study approved by their graduate advisor;
- have fulfilled the University Writing Skills Requirement;
- have completed other department prerequisites for advancement; and
- are recommended for Advancement to Candidacy by their academic advisor (subject to approval by the department's graduate coordinator).

*Also see, **Admission, Enrollment, & Fees** chapter for additional information.*

Capstone Experience

The capstone experience of the graduate program will be the successful completion of a thesis, project, or comprehensive examination. The quality of the student's work, including quality of expression, is the major consideration in judging the success of this degree component.

Thesis

A thesis is the written product of a systematic study of a significant issue. In the thesis, the student is expected to identify the issue, state the major assumptions, explain the significance of the project, detail sources for and methods of obtaining data, provide analysis of the data, and offer conclusions. The thesis should demonstrate original critical and independent thinking, appropriate organization and format, and thorough documentation. If the research involves human subjects, the protocols must be approved by the Institutional Review Board (see "Standards of Research with Human Subjects" section in Graduate Degree Requirements, Policies, & Other Information chapter).

Cal State East Bay offers two kinds of master's degree theses, University Thesis (numbered 691) and Departmental Thesis (numbered 699). Students required, or electing, to write a thesis must register for a minimum of one unit of either 691 or 699 in order to receive credit toward completion of this capstone experience. Students should check with the department for information on the number of units for which

they must enroll.

The following criteria are the same for both the Departmental Thesis and the University Thesis.

- The candidate must be a graduate student (i.e., admitted to a master's degree program) to enroll in a thesis course; the academic department may add additional requirements.
- The student's thesis work will be supervised by a departmental committee which must include at least one Cal State East Bay faculty member who is a member of the major department. Please see the Thesis Committee Policy for additional thesis committee requirements.
- The student may not receive credit for more units of thesis work than allowed by the degree program.
- Each semester students will receive a grade of "RP" (Report in Progress) for units earned in 691 or 699 until they have completed their thesis; the student will then be given a final grade for the entire course. No "RP" units will be counted towards the degree or in calculating their GPA. If the thesis is not approved within one year of initial enrollment in a thesis course, the "RP" grade(s) will be changed to "F" or "NC" (depending on the grading pattern of the course).
- Normally, a degree candidate will be required to present an oral defense of their thesis.
- A Master's degree candidate may not earn more than 6 units for either a University Thesis or Departmental Thesis. Some programs have lower unit requirements. Students should check the program description in this catalog.

There are also a few significant differences between the two kinds of theses:

The format of a University Thesis is established by the Office of Graduate Studies. Since these works are expected to serve as resources for future research, the format is formal. An electronic copy is placed in the Institutional Repository. A Departmental Thesis, on the other hand, is usually not as formal. The Departmental Thesis standards and format are determined by the department, and the thesis is retained by the department.

University Thesis:

For information on the steps to follow (the approval process, required format for the structural elements of the thesis, and deadlines) when writing a University Thesis, consult the University Thesis Writing Guide available online at: www.csueastbay.edu/thesiswritingguide. If a student has questions concerning the selection of a topic, and/or the procedure to establish a thesis committee and research protocols, they should contact their department advisor or graduate coordinator. Students should also see if the department requires that a bound copy be submitted to the department. If the student has additional questions concerning the formatting and submission of their University Thesis after having read the University Thesis Writing Guide, it is recommended they contact the University Thesis Editor at: thesis.editor@csueastbay.edu

Departmental Thesis:

For information about a Departmental Thesis (the department's thesis guidelines, including format, acceptable thesis topics, and procedures to establish a thesis committee) contact the department advisor or graduate coordinator.

Project

A project is a significant undertaking in either a fine or applied art or a professional field. Projects should provide evidence of originality, independent thinking, and appropriate form and organization. Students are required to describe their project in a written abstract that addresses the project's significance, objectives, methodology, and conclusions. In some cases, the student may be required to present an oral defense.

Specific criteria for a Project (numbered 693) are the same as those for a Departmental Thesis with a few exceptions.

- An "RP" grade in a project course will become an "F" (no "NC" option) after one year if the project is not completed.
- While the project need not be considered a research resource, it should be of a caliber to constitute a valid terminal activity in a master's degree program and will be permitted only when a thesis is not appropriate.

If a Master's degree student changes from a program requiring a thesis to one requiring a project (or vice versa), they may count a combined maximum of 6 units for 691, 693, and 699 towards the degree.

Comprehensive Examination

A comprehensive examination is intended to assess the student's mastery of relevant subject matter, their ability to analyze and integrate the knowledge of their field, their skill in critical and independent thinking, and their use of appropriate organization and accurate documentation. A record of the student's examination (questions and responses) will be retained by their department. Some departments grant unit credit for exam preparation while others do not.

Graduate Study Completion (All But Capstone)

Note: Please see Errata for corrections to this content.

Students who have completed all the units required for their master's degree but are still working on their capstone experience (thesis, project, or studying for a comprehensive exam) may have continued access to University facilities by registering for GS 690 Graduate Study Completion through University Extension, Continuing and International Education. This is a 1-unit course with a fee of \$78 (fee subject to change). The other alternative is to register for 0.1 units through the regular registration process and pay regular fees for less than six units.

Registering for GS 690 will provide students with:

- a valid Student ID card,
- the ability to check books out of the library,
- remote access to computerized databases in the library,
- use of computer labs on campus,
- the ability to continue to work on projects in science labs,
- eligibility to purchase a parking permit, and

- access to other benefits enjoyed by regularly registered students.

Enrollment in GS 690 also qualifies as enrollment for students who are serving as a teaching associate.

Note: GS 690 cannot be used to satisfy any unit or course requirements for a master's degree.

Students may register by picking up a "GS 690 Graduate Study Completion Form" in their department or in the University Extension Office in SF 102. *Note: Students will need to obtain a signature from their major department.*

Graduate Registration Policies

Master's degree students must follow the same registration policies and procedures as required for undergraduate students. *See the Registration & Enrollment chapter in this catalog for more complete registration information.*

Registration procedures for Thesis or Project courses are slightly different. Master's students must complete a "Special Registration Petition" for each semester they wish to enroll in one of these courses. The petition should be submitted to the department office. This must be done no later than the last day of the Late Add period. The student is responsible for checking on the progress of this procedure.

Special Registration Petitions

Some courses may require a "Special Registration Petition" prior to enrollment that is **available from the department offering the course**. Typically, courses that will require special registration petitions are:

- Independent Study,
- Individual Study,
- Capstone Project,
- Departmental Thesis, or
- University Thesis.

University Grading Policy

It is an integral part of the teaching responsibility of the faculty to provide careful evaluation and timely assignment of an appropriate grade to each enrolled student. There is a presumption that grades assigned are correct. It is the responsibility of anyone appealing an assigned grade to demonstrate otherwise. In the absence of compelling reasons, such as instructor or clerical error, prejudice, or capriciousness, the grade determined by the instructor of record will be considered final.

For purposes of correcting an error, an instructor may change a grade with approval of his/her department chair and college dean. No grade may be changed once graduation has been recorded unless an error has been made, in which case students have one semester after their degree has been awarded to dispute the grade and have it corrected, or if a Grade Appeal petition has resulted in a grade change. The administrative symbol for withdrawal cannot be assigned by a faculty member.

See the Registration & Enrollment chapter for the description of withdrawal policies and procedures.

Academic Grading Symbols (Graduate)

Graduate Course Symbols & Grade Points Earned

Academic Grade	Standard of Work Represented	Grade (Quality) Points
A	Superior	4.0
A-	Superior	3.7
B+	Adequate	3.3
B	Adequate	3.0
B-	Adequate ¹	2.7
C+	Substandard	2.3
C	Substandard	2.0
C-	Unacceptable	1.7
D+	Unacceptable	1.3
D	Unacceptable	1.0
F	Failing	0.0
CR	Credit ²	not applicable
NC	No Credit ²	not applicable

1Note: A "B-" grade, though described as "adequate," generates fewer than 3.0 grade (quality) points and must be balanced by a grade of "B+" or higher to maintain a 3.0 GPA.

2Note: These grades cannot be selected by students. They are only available in graduate courses offered exclusively on a "credit/no credit" basis.

The typical grading pattern for courses graduate students will take is "A-F"; the use of "+" and "-" is at the discretion of each instructor. As noted in the Master's Degree Requirements section, grades lower than "C" may not be used to satisfy master's degree requirements, and some programs may require grades higher than "C" to meet program requirements; check with the academic department about its policy. A graduate student may use courses taken on a "CR/NC" basis to meet the degree requirements only if the courses are offered exclusively on that basis. Typically, these courses are restricted to fieldwork and internships and a "CR" grade indicates that the student's work is at least of "B-" quality. In post-baccalaureate (500-level) courses, a "CR" grade also indicates that the work is at least of "B-" quality.

Administrative Grading Symbols

Administrative Grading Symbols & Their Definitions

Administrative Grading Symbol	Definition	Grade (Quality) Points Earned
RP	Report in Progress	not applicable
I	Incomplete (Authorized)	not applicable
IC	Incomplete Charged	0.0
RD	Report Delayed	not applicable
W	Withdrawal	not applicable
WU	Withdrawal Unauthorized	0.0
AU	Audit	not applicable

Report in Progress (RP)

The symbol "RP," Report in Progress, is used in connection with courses that extend beyond an academic term. This symbol indicates that work is in progress, but that a final grade cannot be assigned until additional work is completed. The work must be completed within one year.

Note: If the work is not completed within the established time limit the "RP" grade will be changed to an "F" or "NC," depending on the grading pattern for the course.

Incomplete (I)

The symbol "I", Incomplete (Authorized), indicates that:

1. a discrete portion of the required coursework has not been completed and evaluated in the prescribed time period due to unforeseen, but fully justified, reasons,
2. attending a future offering of the class is not required to complete the work, and
3. the instructor believes it likely that the student will earn credit for the course upon completion of that work.

Students who are currently failing a course are not eligible for an Incomplete.

It is the student's responsibility to bring pertinent information to the attention of the instructor and to determine from the instructor the remaining course requirements that must be satisfied to remove the Incomplete. A final grade is assigned when the work agreed upon has been completed and evaluated. The instructor will specify the work needed to complete the course that can be viewed in MyCSUEB.

Note: An "I" must normally be made up within one calendar year immediately following the end of the term during which it was assigned. This limitation prevails whether or not the student maintains continuous enrollment. Students may not repeat a course in which they currently have an incomplete grade. Students who are currently failing a course are not eligible for an Incomplete.

Students may be able to receive up to a one-semester extension from the instructor. These extensions are for cause and must be approved by both the instructor and department chair. (Examples of cause include military service, serious health or personal problems, or instructor's leave of absence.) If a student wants credit for a course after an "I" has been converted to an "IC," the student must re-register and pass the course.

When the required work has been completed and evaluated, the instructor will submit a change of grade form and the academic grade will be recorded. If the student does not complete the work within the allowed time limit, the grade will be recorded as an "IC" (Incomplete Charged).

A student can graduate with an "I" grade on their record if the course is not necessary for graduation requirements. No grade may be changed once the degree has been awarded.

Incomplete Charged (IC)

The symbol "IC," Incomplete Charged, is used if the student received an authorized incomplete ("I"), but did not complete the required coursework within the allowed time limit, and the original grading pattern of the course was "A-F." If the grading pattern was either "A/B/C/NC" or "CR/NC", the grade will be recorded as "NC."

Note: The "IC" replaces the "I" and is counted as a failing grade for computing grade point average.

Report Delayed (RD)

The Report Delayed grade is an administrative grade assigned to students for a course if the instructor notifies the Office of the Registrar that grade reports have been delayed by circumstances beyond the control of the instructor. An example is the illness of the instructor at the end of the semester. The instructor will replace the "RD" grade with an academic grade as soon as possible.

Note: If the instructor fails to replace it with an academic grade by the end of the following semester, the grade "RD" will be converted to a "WU" or an "NC" depending on the grading pattern.

Withdrawal (W)

Dropping a course may be permitted, without restriction or penalty, during the Add/Drop Period. No grading symbol is recorded in such instances.

The "W" administrative grade indicates that the student was permitted to withdraw from a course after the end of the Add/Drop Period and prior to the last twenty percent of instruction, and may be assigned only for serious and compelling reasons. Permission to withdraw during this time shall be granted only with the approval of both the instructor and the department chair. The requests and approvals shall state the reasons for withdrawal.

Undergraduate students may withdraw after the Add/Drop Period from no more than 18 semester units in the undergraduate career. Only withdrawals recorded in terms beginning with Fall 2009 are counted. When serious illness or accidents are documented and used as the basis for approval of withdrawal from classes in the term, the units in question will not count against the maximum units allowed. Open University units are counted toward the maximum units. No limitations are placed on withdrawals by post-baccalaureate students taking classes in a post-baccalaureate career.

Withdrawals are not permitted during the final twenty percent of instruction except in cases, such as accident or serious illness, where the cause of withdrawal is due to circumstances clearly beyond the student's control and the assignment of an Incomplete is not practicable. Withdrawals of this nature may involve total withdrawal from the campus or may involve only one course, except that a course grade and credit or an Incomplete grade may be assigned for courses in which sufficient work has been completed to permit an evaluation to be made. When serious illness or accidents are documented and used as the basis for approval of withdrawal from classes in the term, the units in question will not count against the maximum units allowed. Request for permission to withdraw under these circumstances shall be granted only with the approval of the instructor, the department chair, the college dean and the administrator appointed by the President to act in such matters.

The "W" grade shall not be used in the calculation of grade point averages.

Withdrawal Unauthorized (WU)

The "WU" grade (Withdrawal Unauthorized) shall be used where a student who is enrolled on the census date does not officially withdraw from a course, but fails to complete it. Its most common use is in those

instances where a student has not completed sufficient course assignments or participated in sufficient course activity to make it possible, in the opinion of the instructor, to report satisfactory or unsatisfactory completion of the class by use of the letter grade (A-F). *The "WU" is counted in the grade point average as an "F" grade.* When assigning the "WU" grade, the instructor shall report the last known date of attendance by the student.

Audit (AU)

Students may take courses for instruction only (Audit), and will attend class but will not receive credit. Audit students will pay the same fees and enjoy the same instructional privileges as students enrolled for credit. Audit students may participate in class, take examinations or complete other assignments, but are not required to do so.

Note: Students may not petition to change their enrollment status from, or to, "Audit" after the Grade Type Change period has ended.

Grade Point Average (GPA)

The student's grade point average (GPA) is calculated by dividing the total number of quality hours (units attempted, excluding CR/NC courses) into the number of grade (quality) points earned. If they repeat a course required in the major, their department has the discretion, under specific circumstances, not to include an earlier attempt in the GPA calculation. The approval not to include the earlier attempt in the student's degree program must be submitted by their department to the Office of the Registrar. This may be done at any time while a student is enrolled in the degree program, but may not be done after they have been awarded their degree.

The graduate program coordinator or department chair also has the discretion to request that grades in courses that do not count towards graduate degree requirements be excluded from a student's GPA calculation. This will be permitted only if those grades result in the student being placed on academic probation. These may include courses taken in a second baccalaureate program, or courses taken in a different graduate degree program. They may not be courses taken in the degree program that the student subsequently elects not to count toward graduate program requirements. They also may not include grades for courses that the student used for a conferred post-baccalaureate degree. The request not to include a grade in a student's GPA calculation must be submitted by the graduate coordinator or department chair to the Office of Academic Programs and Services which will make the final determination of the request. This may be done at any time while a student is in the degree program, but may not be done after they have been awarded their degree.

If the student's GPA falls below 3.00, they should consult immediately with the graduate coordinator or major department chair.

Final Examination Policy

The student can expect the instructors to provide comprehensive course requirement information for each course at the beginning of the semester. This will include the work that is expected of the student and the

basis on which the student will be evaluated. Most courses have graded assignments throughout the semester and a final examination or paper. The University's policy states that final examinations must be given only at the times published in the schedule of classes on *MyCSUEB*. The purpose of this policy is to ensure fairness for all students. Exceptions are, therefore, rare and must be approved in writing by the department chair. A student should contact the department chair or college dean if they believe this policy is not being followed. If the student is in a course which has a separate laboratory, activity or discussion section, the instructor is permitted to give a separate final examination (but only for that section) during the last regularly scheduled meeting of the section.

Standards of Research with Human Subjects

The University has approved policies and procedures for the protection of human subjects in research, development, and related activities carried out by faculty, staff and students. An Institutional Review Board has been established to review research protocols in order to determine whether human subjects would be at risk and to protect their rights and welfare. Protocols must be approved before research commences. Further information and copies of the policy document may be obtained from the Office of Research and Sponsored Programs, SF 302, 885-4212 or online at: <http://www.csueastbay.edu/orsp/>.

Graduate Student Probation and Disqualification Policy

There are two types of probation and disqualification: (1) academic, and (2) administrative.

Academic Probation

Students must maintain a 3.00 GPA in all units attempted after admission to their graduate program, including all prerequisite courses, to remain in good standing. If the student's GPA falls below 3.00, they will be placed on Academic Probation. (*Grades in any coursework taken after admission to the student's master's program at CSUEB will count towards the GPA calculation for academic probation.*) Should this happen, the student must consult with their graduate advisor prior to registering for the next semester. The student is also encouraged to take advantage of various University services (such as advising and tutoring) designed to assist them.

Academic Disqualification

A student may be subject to academic disqualification if during any semester while on probation they do not achieve the minimum 3.0 GPA in all units taken after admission to their graduate program. The student may also be disqualified if, at any time, they do not meet the academic criteria of their department. In addition, an appropriate campus administrator may disqualify a student who at any time during enrollment has demonstrated behavior so contrary to the standards of the profession for which the student is preparing as to render the individual unfit for the profession. In such cases, disqualification will occur immediately upon notice to the student.

Administrative Probation

A student may be placed on Administrative Probation if they:

- withdraw from all courses for two consecutive semesters or any three semesters;
- do not progress towards their degree while enrolled (such as earning a number of "NC" grades);
- do not comply with appropriate academic requirements (such as taking the Writing Skills Test); or
- earn only "IC," "F," "WU," and/or "NC" grades for two consecutive, or any three semesters.

Administrative Disqualification

A student will be administratively disqualified if they:

- do not meet the conditions for removal of their Administrative Probation;
- are placed on Administrative Probation twice for the same reason;
- are placed on Academic Probation while on Administrative Probation.

Reinstatement to a Graduate Program

If a student is disqualified, either academically or administratively, they may apply for reinstatement to their graduate program by completing a "Petition for Graduate Reinstatement." The petition must be approved by the appropriate graduate coordinator or the department chair. Reinstatement will be approved only if the student is able to provide compelling evidence of their ability to complete their degree. Then it will be forwarded for consideration to the Director of Graduate Studies, who has final authority to approve reinstatement. If a student should become disqualified a second time, their reinstatement normally will not be considered. Reinstatement petitions are available at <http://www.csueastbay.edu/academic/colleges-and-departments/apgs/office-graduate-studies/reinstatement.html>.

Declassification from a Degree Program

A student may be declassified (dropped) from a graduate degree or credential program for a range of reasons, including, but not restricted to, unprofessional conduct; behavioral issues that interfere with the learning of others; failure to make progress toward the degree or program as set forth by the University and program policies; failure to meet grade requirements to maintain good standing in the program and/or University; and/or the department/program faculty determine that the student is incapable of completing degree requirements at the level expected of a graduate student in the discipline even if the GPA is above 3.0.

The declassification request must be initiated by the major department with support from the department/program chair and college dean or designee. Requests are submitted to the Office of Academic Programs and Services for final action and official notification to the student and the Registrar's Office. The Office of Academic Programs and Services will also determine if the student should also be academically or administratively disqualified from the University. If the student is not disqualified from the University and wishes to continue in the University, a declassified student must formally apply to another graduate program. Declassified students will not be permitted to enroll through regular University or Open University in any undergraduate or graduate courses in the program or degree

from which they were declassified. Unless the declassification was related to conduct issues that interfere with campus interactions, declassified students are eligible to apply to a new program and be accepted as a student by the new department/program. The student must be accepted to a new program no later than two semesters after being declassified; otherwise, the student must reapply to the University.

Cancellation of Registration or Withdrawal from the University

All Students

Students who find it necessary to cancel their registration or to withdraw from all classes after enrolling for any academic term *are required* to follow the University's official withdrawal procedures. Failure to follow formal University procedures may result in an obligation to pay fees as well as the assignment of failing grades in all courses and the need to apply for readmission before being permitted to enroll in another academic term. Information on canceling registration and withdrawal procedures is available from the Enrollment Information Center, located on the first floor of the Student Services and Administration Building.

Students who fail to fulfill enrollment or matriculation requirements, or otherwise fail to adhere to academic or Cal State East Bay regulations, are subject to immediate administrative action which may result in the student being placed on Administrative Probation, or having enrollment for that term canceled.

Note: Matriculated students who have not enrolled in classes at Cal State East Bay for two consecutive semesters (not including summer or winter sessions), and do not enroll in the third consecutive semester, will be discontinued and will be required to submit a new application to the University for readmission.

Add/Drop Period

Submitting a "Withdrawal" form is not required if students find it necessary to drop all courses in which they enrolled in using MyCSUEB during the Add/Drop period. For refund information, refer to the *Refund of Fees* section in the *Fees & Financial Services* chapter.

If students find it necessary to withdraw from the University after the Add/Drop period has ended (during the third through the twelfth week of instruction), they must complete a "Withdrawal" form, obtain approval signatures from each instructor and department chair, and return it to the Enrollment Information Center or the Academic Services Office. Course withdrawals are handled as noted in the section above. A semester from which a student withdraws is not counted as an interruption of enrollment for matriculated student status. Even if approved, a late withdrawal petition does not result in a fee refund. Students should consult with Student Financial Services for any questions about fee refunds related to withdrawing from classes.

Financial Aid Recipients

Students who receive financial aid funds *must consult* with a financial aid counselor in the Financial Aid Office prior to withdrawing from the University regarding any required return or repayment of grant or loan assistance received for that academic term or payment period. Students who have received financial

aid and withdraw from the institution during the academic term or payment period may need to return or repay some or all of the funds received, which may result in a debt owed to the institution.

Fee Refunds

A withdrawal may not automatically result in a fee refund. Students should consult with Student Financial Services for any questions about fee refunds related to withdrawing from classes.

Appealing an Inappropriate Grade

Faculty have the sole right and responsibility to provide careful evaluation and timely assignment of appropriate grades. There is a presumption that grades assigned are correct. It is the responsibility of anyone appealing an assigned grade to demonstrate otherwise. In the absence of compelling reasons, such as instructor or clerical error, prejudice or capriciousness, the grade assigned by the instructor of record is to be considered final. Students who believe that an appropriate grade has not been assigned should attempt to resolve the problem with their instructor. If the student is not satisfied with the outcome, they should discuss the issue with the department chair in which the course was offered. If the issue is not resolved, the student should make an appointment with the dean or associate dean of the college in which the course is offered. If all previous actions fail, the student should contact the Presidential Appointee to the Grade Appeal and Academic Grievance Committee by calling (510) 885-3716. If the student has applied for graduation, the student should notify their graduation evaluator that a question is pending resolution. Once a degree is posted, no grade changes will be allowed.

Grade Appeal and Academic Grievance Committee

The Grade Appeal and Academic Grievance process, administered by this committee, allows students to resolve serious cases of alleged academic unfairness. After every effort by all parties to resolve the dispute has been ineffective, students can discuss their case with the Presidential Appointee to the Grade Appeal and Academic Grievance Committee. The Presidential Appointee will assist students in exhausting all normal channels and, if necessary, in filing a Petition (see link below) for a Grade Appeal Hearing. Students will need to submit their petition and supporting documentation to the Academic Programs and Services Office. The committee will review this documentation and the response(s) filed by the other parties involved in the dispute. If the committee finds possible grounds for a grievance, a Hearing Panel will be convened to hear the case. Under normal circumstances, the student must file their Petition before the end of the semester following the semester in which the alleged incident took place.

The Grade Appeal and Academic Grievance Committee is empowered to change a grade in accordance with the Grade Appeal Document and to assign a grade in cases where the instructor may have assigned an unfair academic grade. The Grade Appeal and Academic Grievance Committee is authorized to change a grade only after it has conducted a proper review of the case.

Grade Appeal Petition Form

For additional information see the **Student Rights, Responsibilities & Conduct** chapter.

More information is available from the Office of Academic Programs and Services (Student Services and Administration Building, Suite 4500; Tel. (510) 885-3716)

Course Requirement Information - Course Syllabus

Faculty shall provide students with a course syllabus, which should be placed on the course Blackboard site at the beginning of the semester, containing the following information:

- Name of instructor, office location, office hours, office telephone number, and @csueastbay.edu e-mail;
- Course number and title, classroom location, number of units, prerequisites (if any), a course description, objectives and student learning outcomes;
- Required texts and any other required and/or recommended materials;
- Student-supplied equipment and materials necessary for course activities;
- Course specific requirements and their due dates, such as examinations, quizzes, papers, field trips, and labs;
- Grading policy, which includes the relative weight of examinations, quizzes, papers, class participation, and other factors, and the grading scale;
- Attendance and make-up work policies and implications for grading;
- The following statement and reference to University policies regarding cheating and academic dishonesty: **"By enrolling in this class the student agrees to uphold the standards of academic integrity described at: <http://www.csueastbay.edu/academic/academic-policies/academic-dishonesty.html>."**
- Accommodations for students with disabilities.
 - Sample statement: **"If you have a documented disability and wish to discuss academic accommodations, or if you would need assistance in the event of an emergency evacuation, please contact me as soon as possible. Students with disabilities needing accommodation should speak with the Accessibility Services."**
- Emergency information.
 - Sample statement: **"California State University, East Bay is committed to being a safe and caring community. Your appropriate response in the event of an emergency can help save lives. Information on what to do in an emergency situation (earthquake, electrical outage, fire, extreme heat, severe storm, hazardous materials, terrorist attack) may be found at: <http://www.csueastbay.edu/af/departments/risk-management/ehs/emergency-management/index.html>. Please be familiar with these procedures. Information on this page is updated as required. Please review the information on a regular basis."**

Faculty are also encouraged to include additional items such as:

- Course outline;
- Types of quizzes and exams (e.g., true-false, multiple choice, short-answer, essay);
- Availability of appropriate tutoring services;
- Policies regarding audio and video recording and use of electronic devices;
- Reference to University classroom behavior policies;
- Classroom food and drink policies.

Furthermore, faculty should advise students of their expectations in the course no later than the end of the second class. Any changes in course requirements should be communicated to students in a timely

manner. It is the student's responsibility to read the course statement and to request any clarification of course policies. If a student adds the course after the first week of class, they must seek course information in a timely manner.

Faculty Office Hours Policy

The faculty of the University are available during regularly scheduled office hours, which are at times other than scheduled classes. The times of the office hours are posted outside each faculty office, at the faculty member's department, on the department website, and on the faculty member's course syllabi. The faculty member informs the department of their office hours the first day of classes each semester. *Note: There is a proposal to amend the following policy regarding office hours. If approved by the University President, the policy may differ from the one below.*

Full-time faculty members maintain a minimum of three (3) office hours per week and also make provision for meeting with students by appointment at a mutually convenient time beyond the stated office hours. The full-time faculty member's office hours shall be held over at least two days and at least in half-hour blocks. Part-time faculty will maintain the equivalent of one (1) office hour per week for each four WTUs of their teaching load with a minimum of one hour and a maximum of three hours per week.

Faculty teaching online must also hold office hours and may make alternative arrangements with the Department Chair to be available online or by telephone. Online faculty's office hours must include at least one (1) hour of availability by telephone per week.

If for any reason a faculty member cannot meet the posted office hours, the faculty member will inform the Department Chair. If possible, the department will note the absence on the faculty office door.

Note: Normal office hours are to be maintained during the Final Examination period. If a final examination conflicts with a posted office hour, an alternative hour is to be posted for that week alone.

Transferring Units as a Graduate Student

A minimum of seventy (70) percent of the total units required by the degree program must be completed in residence while enrolled as an admitted graduate student at Cal State East Bay.

Note: The number of transferable units for each degree program will be rounded to the nearest whole number of units.

Units taken while at other schools, while an undergraduate with permission to take graduate courses, while pursuing an additional baccalaureate degree in "Unclassified Post-Baccalaureate" status, while enrolled in another graduate degree program, or while enrolled in Continuing Education courses (including Open University courses) do not count as resident units. Courses offered in special session are considered resident units.

Please note that individual graduate programs may require more than 70 percent of the required degree units in residence. If so, it will be noted in the program's section of this catalog for these requirements.

To request transfer credit:

1. The student must have taken the course after earning a bachelor's degree;
2. Their department must accept the course(s) as relevant to their degree program;
3. The institution at which the student took the course must customarily grant the level of credit for the course (graduate or upper division) that the student wishes to receive for it at Cal State East Bay;
4. The student must have taken the course within five calendar years immediately preceding the receipt of their degree.

In general, Cal State East Bay does not allow the use of credit-by-examination from challenged courses for master's degree requirements. Exceptions may be established by individual departments and must be noted in the degree description in the University Catalog. They are governed by the following policies:

- The student must pass the exam challenging the course with a grade of "B-" or better;
- Not more than 9 semester units of credit-by-examination may be applied to the degree; and
- Challenged courses may not be credited to the residency requirement of your degree.

Change in Educational Objective

Change in Educational Objective

Continuing post-baccalaureate students wishing to change their degree objective or credential program must file a "Change of Graduate Objective" application with the Office of Graduate Admissions. Applications are available online. Students may contact gradadmission@csueastbay.edu for more information.

Dual Master's Degrees

If a student wishes to pursue two master's degrees at the same time, they should apply to their primary degree via CALSTATE Apply and complete a "Change of Graduate Objective" form filed with the Office of Graduate Admissions to apply for the second degree.

Note: a student must fulfill all prerequisites and requirements for each degree. See the Second Master's Degree section below for more policies related to dual master's degrees.

Second Master's Degree

If a student already has a master's degree and wants to pursue a second master's degree, they must meet the following criteria:

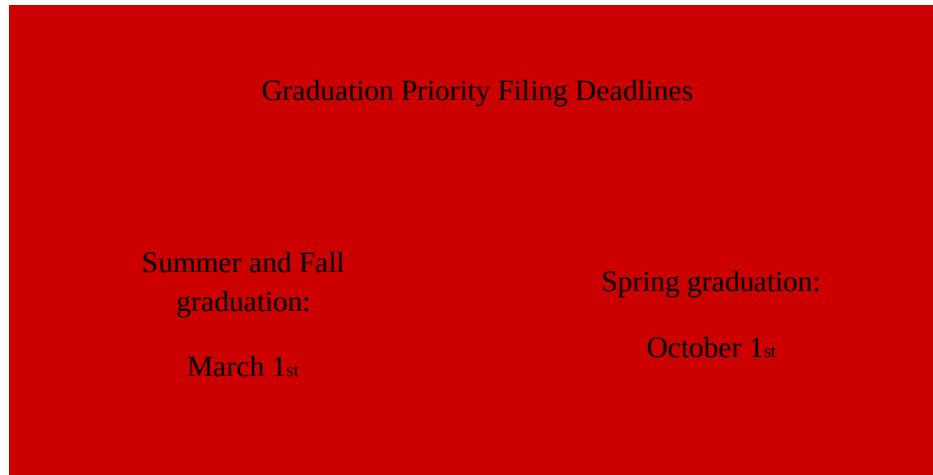
- Apply and gain admission to the department offering the second master's degree program;
- Fulfill all prerequisites and requirements for the second degree;
- Complete at least 70% of the units required for the second degree in residence after admission to the second degree program. Up to 30% of units from the first degree may be applied to the second degree, if accepted by the second degree program. If no units for the first degree are accepted, all units for the second degree must be completed;

- Earn all units for the second master's degree within the five calendar years immediately preceding the receipt of the degree.

If the second degree is in the same field as the first degree (e.g., business administration), the second degree must be in a different concentration and all units in the degree must be from different courses.

Time to Think About Graduation!

Students should apply for graduation by the priority filing deadline for the term in which they intend to graduate:



Continuing students who have satisfied the University Writing Skills Requirement can log into *MyCSUEB* and click on "Apply for Graduation." After filing, students should print the final confirmation page and give a copy to their major and minor departments to initiate a graduate check. Discontinued students can file for graduation using the Graduation Application - Closed Matriculation form on the University website under Student Records Forms.

Note: Students are advised to review completion of degree requirements with their department before filing for graduation. Degrees are awarded within three months after the student's final term of attendance.

Catalog Rights for Graduation

As long as a student maintains continuous enrollment as defined in the next paragraph, the degree requirements will remain those of the catalog in effect at the time they declare their major, minor, or degree. However, students may elect to meet the requirements of the catalog in effect at the time of graduation. These principles are called "catalog rights."

Matriculated students who have not enrolled in classes at Cal State East Bay for two consecutive semesters (not including summer or winter sessions), and do not enroll in the third consecutive semester lose their continuous enrollment status and their graduation requirements will be governed by the catalog in effect at the time they reenter. If a student is absent due to an approved Planned Educational Leave or to attend another accredited institution of higher education, they will not lose their catalog rights as long as they are not away from Cal State East Bay for over two years.

Transfer students who attended another CSU campus and/or California Community College have Cal State East Bay catalog rights from the time they began at the other institution if they have continuous enrollment as noted above.

Note: The principle of catalog rights refers to degree requirements, not policies, fees, services, and other matters which, when they change, apply to all students. For that reason, students should check the latest online catalog.

Also Note: Requirements of certain programs (e.g., teacher credential programs) are governed by outside agencies. The requirements of these programs are subject to change based on changes dictated by these outside agencies.

Due to semester conversion, during the 2018-19 academic year only, students with rights to earlier catalogs may request rights to this Catalog for either their major or their graduation requirements or both. Forms are available on the Registrar's website.

Undergraduate Students

Students' catalog rights for their major, minor or degree are governed by the catalog in effect at the time the student declares their major, minor, or degree. Undergraduates will not lose catalog rights for graduation requirements (including general education) by declaring or changing their major if they maintain continuous enrollment.

Post-graduate & Graduate Students

Catalog rights for graduate students are governed by the catalog in effect at the time the student was admitted to their program. As noted earlier, they may select the graduation catalog when they file to graduate. Students should note, however, that there is a requirement that courses in master's programs expire after five years; see the Master's Degree Requirements section of the *Graduate Degree Requirements, Policies, & Other Information* chapter.

SSMP & Credential Program Students Filing for Graduation

Undergraduate and Graduate Students

If a student is completing an undergraduate *Single Subject Matter Preparation* program for entry into a teaching credential program, or they are completing a graduate *Single or Multiple Subject Credential* program, they should *NOT* file for graduation.

The appropriate check sheet *MUST* be submitted by the department or program committee offering the program to:

Credentialing Student Services Center

(Art & Education Building [A&E] 2nd Floor)

College of Education and Allied Studies

Applying for Graduation

Important: Students are advised to review completion of degree requirements with their department before filing for graduation.

Graduation Application Fee

The Graduation Application (filing) Fee will be charged to the student's account after they file for graduation. The fee is nonrefundable, and can be paid in one of the following ways:

- online at *MyCSUEB*,
- in person at the Cashier's Office in the Student Enrollment Information Center (Student Services and Administration Building, 1st Floor) on the Hayward Hills Campus,
- in person in the Academic Services Office on the Concord Campus.

The Graduation Application Fee covers the cost of the graduation check of coursework, completing the diploma, and participation in the annual commencement ceremony. *Note: the application fee does not include the cap and gown rental/purchase, handled separately by the Bookstore.*

Priority Registration

Note: When a student files for graduation, they may obtain a new registration priority.

To register for classes as a "graduating student", students must meet the following criteria at the time enrollment appointments are assigned each term:

- Undergraduate Students: Completed 100 semester units and filed for graduation by the priority filing deadline,
- Graduate Students: Considered a "Classified Graduate" who is recommended for Advancement to Candidacy by their advisor and who has made substantial progress towards their degree, or filed for graduation by the priority filing deadline.

Conferring Honors at Graduation

Because graduate students constitute a select group whose members do very well in their programs, there are no academic honors conferred at graduation, and no dean's list recognition as is the case for undergraduates.

Diplomas

After a student has completed all degree requirements and the graduation evaluator has verified their completion, their degree will be conferred and their diploma will be ordered. The final graduation evaluation process typically takes up to **three months following the posting of grades from the student's last semester of graduation candidacy**. The diploma will be mailed to the student's permanent address of record with the University 6-8 weeks after the degree has been awarded.

A diploma is an official document containing the embossed seal of Cal State East Bay, the student's name, the degree conferred and date, major(s) completed in the degree conferred, any concentrations or minors completed, and the signatures of state and University officials. It is not reproducible or available in

multiple copies. Students can obtain multiple copies of their record by ordering transcripts which also show degrees, majors and concentrations, as well as other information. If a student needs proof of completion of their degree before receiving their diploma, they may request a verification of graduation or a transcript from the *Office of the Registrar*.

Should a student change their name, they may request that a new diploma be issued with their new name if:

1. they return the originally issued diploma to the *Office of the Registrar*,
2. they provide legal documents confirming their legal name change, and
3. the student pays the fee for a new diploma.

After the degree is posted to a student's permanent record, a student's diploma and transcript cannot be altered by adding additional options, or by grade changes, and/or withdrawals. The University protects the integrity of its transcripts and will not rewrite history unless a University error has occurred.