

General Catalog

and

ANNOUNCEMENT OF COURSES

1965-1966



CALIFORNIA STATE COLLEGE

AT FULLERTON

800 North State College Boulevard, Fullerton, California 714 871-3300 92631



One of the many impressive approaches to California State College at Fullerton. The Letters and Science Building is one of four new buildings now completed or under construction at CSCF, one of the nation's fastest growing colleges.

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ORGANIZATION AND ADMINISTRATION

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SUMMER SESSION 1965	
June 4, Fri.	Application deadline for master's degree candidates for graduation. Summer Session 1965
June 21 Mon	First Summer Session begins
July 5 Mon	First Summer Session begins Independence Day (holiday)
July 30 Fri	First Summer Session ends
August 2 Mon	Second Summer Session begins
August 27, Fri.	Second Summer Session ends
	blio logression
FALL SEMESTER 1965	, BLD, LLD, LHB. 1930 W Inspecial Hwy.
	Applications for admission due in Admissions Office
September 13, Mon.	
September 14-17, TueFri.	Advisement, Registration, and Freshman Orientation
	Last day to register without late registration fee
September 20, Mon.	
Lobis 18. Melloron, A.M., E.L.)	Last day to register or add classes, and last day for provisional admission of graduate students
Lioueld M. Huer, B.A. (1968) 1230 Piece St., Bakersfield 9)	Application deadline for baccalaureate degree candi dates for graduation, Spring Semester and Summer Session 1966
October 29, Fri.	Last day to drop a course with automatic "W"
November 11, Thur.	Veterans' Day (holiday)
November 25, 26, Thu., Fri.	Thanksgiving recess
	Application deadline for master's degree candidate for graduation, Fall Semester 1965
December 20, Mon.	Christmas recess begins
January 3, Mon.	Classes resume
January 20. Thu	Last day of classes
January 21, Fri.) T. (19/4)
January 21, Fri. January 24–27, Mon.–Thu.	Semester examinations
SPRING SEMESTER 1966	
January 14, Fri.	Applications for admission due in Admissions Offic
February 1-4, TueFri.	Registration for all classes
February 4, Fri.	Last day to register without late registration fee
February 7, Mon.	Classes begin
February 11, Fri.	Last day to register or add classes, and last day fo provisional admission of graduate students
February 22, Tue.	Washington's birthday (holiday)
March 11, Fri.	
March 18, Fri	Last day to drop a course with automatic "W"
April 4, Mon.	Spring recess begins
April 11, Mon.	
April 14, Thu.	Application deadline for master's degree candidate
	for graduation, Spring Semester 1966

May 6, Fri	Day of the Titan (not a holiday)
May 30, Mon	Memorial Day (holiday)
June 1, Wed.	Last day of classes
June 3, Fri.	-)
June 6-9, MonThu.	Semester examinations
June 12, Sun.	Commencement

Application deadline for master's degree candidates
for graduation, Summer Session 1966
First Summer Session begins
Independence Day (holiday)
First Summer Session ends
Second Summer Session begins
Second Summer Session ends

November 25, 26, Thu, Pri. Thinlogiving recess

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THE CALIFORNIA STATE COLLEGES

The California State Colleges are a unique development of the democratic concept of tax-supported public higher education for all qualified students.

Spanning the state from Humboldt County in the north to San Diego in the south, the 16 campuses of the California State Colleges (with two additional campuses now in formative construction stages) represent the largest system of public higher education in the Western Hemisphere and one of the largest in the world. Current enrollment exceeds 150,000 full and part-time students. The faculty and administrative staff numbers some 7,000.

The individual colleges, each with a geographic, curricular and academic character of its own, offer a solid basic program in the liberal arts. Beyond this, each college is noted for its individuality in academic emphasis which makes for a diversified system. Course offerings leading to the bachelor's and master's degree are designed to satisfy existing student interests and to serve the technical and professional manpower requirements of the state. A joint doctoral program with the University of California is now underway.

The California State Colleges are dedicated to rigorous academic standards. Constant striving for academic excellence is at the heart of the system. The primary responsibility of each faculty within the system is the instructional process on the teacher-student level, with appropriate recognition of the necessary and

constructive role of research in any institution of higher education.

Responsibility for the California State Colleges is vested in the Board of Trustees, which is appointed by the Governor, and the Board's administrative arm, the Chancellor. The Trustees and the Chancellor set broad policy for the colleges while delegating considerable independent responsibility for implementation at the college level.

Although the oldest of the colleges, San Jose State College, dates back a century, the California State College system under an independent Board of Trustees was created by the Donahoe Act of 1960. Formerly, the colleges were under the

jurisdiction of the State Board of Education.

Today, the California State Colleges are in a particularly dynamic period of their development. Prior to World War II, there were seven State Colleges with a peak total enrollment of some 13,000. Since 1947, nine new campuses have been developed and two more are being developed. Enrollment in the system is expected to reach 225,000 by 1970.

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Research

U. S. Borax Research Corporation

Teacher Education Advisory Council

Thomas Byrnes

Valencia High School

Dr. A. Stanley Corey Assistant Superintendent for

Instruction
Buena Park Schools

Mrs. Nina Decker

Principal Leroy Doig Intermediate School

Mr. Francis A. Grunenfelder
County Superintendent of Schools

Miss Myra C. Hotchkiss Vice Principal

Magnolia High School Mrs. H. D. (June) Joyner

Dr. Ernest G. Lake
District Superintendent
Fullerton Union High School and
Junior College District

Kenneth L. Mackay Ladera Vista Junior High School

William E. Montonna Principal Villa Park High School Dr. D. Russell Parks District Superintendent Fullerton Elementary School District

William Rickel
Anaheim Union High School District

Robert E. Shanks Superintendent Anaheim City Schools

Mrs. Harold Sprague Mrs. Avery Streech

Thomas Trawick
Dean of Students
Santa Ana College

Mrs. Mignon Waters
Susan B. Anthony School
Garden Grove School District

Dr. Norman E. Watson
President
Orange Coast College

K. E. Whiteneck Corona Del Mar High School

Dr. Elizabeth V. Wright
Fullerton Junior College

PHILOSOPHY AND OBJECTIVES OF THE COLLEGE

The main functions of an institution of higher learning are to disseminate and advance knowledge. The philosophy which guides an institution can limit or promote the successful achievement of these objectives. Therefore, from its inception, the College has directed its educational program toward the fullest possible development of the individuals who participate in it. For both faculty and students this entails a commitment to high standards of scholarship, a comprehensive rather than a narrow approach to major areas of study, and a concern with research and other creative activity.

The College holds to the belief that an enduring educational experience must be founded upon exploration of our cultural heritage, through basic studies in the liberal arts and sciences, and that it can and should at the same time prepare for success in a chosen occupation or profession. Accordingly, the required General Education program has as its objective the development in each student of:

1. The effective use and interpretation of the written and spoken language.

An understanding of the wide range of human endeavor and accomplishments in Liberal Arts and Sciences, their interrelationships, and the various choices and values they represent.

An understanding of information and principles in some areas of the Liberal Arts and Sciences in sufficient depth to encourage critical and creative thought

and expression.

4. A spirit of inquiry into the past and into the future, in order to cope with

conditions in the continually changing world.

5. An understanding of the rights, privileges and responsibilities of citizenship in the community and nation, and of effective participation in today's world.

In addition, the College requires of all students who are candidates for a degree—whatever their special purpose—the pursuit of a subject major.

(For specific details, see page 45.)

HISTORY OF CALIFORNIA STATE COLLEGE AT FULLERTON

Orange County is situated on a coastal plain southeast of the City of Los Angeles. A decade ago the county was regarded as being one of rural characteristics, with emphasis on the production of oranges and other citrus fruits. Today it is being referred to as one of the fastest growing counties in the nation, having multiplied its population almost five times in the last fifteen years. Orange County reached the one million mark in population in 1963, to make it the third most populous county in California. The median age of the population is 26.6 years, and 42 per cent are less than 20 years of age. Much of the county is still rural, the county having a population density of 1.37 persons per acre. There are sections, however, that are as dense as 16.64 persons per acre. Every indication points to continued growth, with a predicted population of two million by 1980. Since 1952, over 33,000 acres of irrigated agricultural land have been converted to subdivisions, business and industry, freeways, and schools. The electronics industry is the leader in growth among industries and businesses in the county.

California State College at Fullerton was established by act of the Legislature under the terms of Chapter 1681 of the Statutes of 1957. On March 13, 1958, the Public Works Board selected the site of the College, located in the northeast section of the City of Fullerton. It now consists of 225 acres, and is bounded on the north by Yorba Linda Boulevard (formerly Pioneer Avenue), on the west by State College Boulevard (formerly Cypress Avenue), on the south by Nutwood Avenue, and on the east by the proposed Orange Freeway. The College is located within five miles of 60% of the industry and within 10 miles of 70% of the population of Orange County. It is also within easy driving range of Orange County beaches and mountains, and of the other cultural centers of Southern Cailfornia and their

recreation and entertainment areas.

Dr. William B. Langsdorf was appointed president of the College on January 16, 1959, and with two aides came to Fullerton on March 2, 1959, to begin planning for the opening of the new college. Arrangements were made with the Fullerton Union High School District to lease quarters for the College administrative offices on the Fullerton Union High School campus, and to hold classes at the Sunny Hills High School for the 1959–60 school year. During the first six years, the average annual enrollment has grown from 466 to 4,900 individuals. Envisioned are average annual enrollments of 10,000 in 1969–70; 15,000 in 1974–75; and 30,000 individuals when the College reaches its Master plan enrollment of 20,000 full time equivalent students in the early nineteen eighties.

In the Fall of 1960, the College opened classes on its own campus where it occupied twelve temporary buildings. The first permanent building, the Letters & Science Building, was completed in 1963, and the Music-Speech-Drama Building in 1964. Thereafter, other permanent buildings will be opened in approximately the following order: Physical Education Building, 1965; Library and Audio-Visual Center, 1966; Cafeteria, 1967; Humanities-Social Sciences Building, 1968; and Art

Building, 1969. Additional buildings are being planned for the future.

ACCREDITATION

The College is fully accredited by the Western Association of Schools and Colleges and the California State Board of Education.

MEMBERSHIP IN ORGANIZATIONS

The College is a member of the following distinguished educational bodies: American Association of Colleges for Teacher Education American Association of University Women

American Council on Education

Association of State Colleges and Universities Western Association of Schools and Colleges

THE COLLEGE LIBRARY

The College Library is housed in the basement of the Letters and Science Building. It occupies an area of approximately 30,000 square feet. Seating is provided for 500 persons. Group study rooms, a typing room, study carrells, and individual and group music listening rooms are available. The library has facilities for Xerox and Filmac copying.

The main book collection will contain about 86,000 volumes at the beginning of the 1965-66 academic year. During the year about 20,000 volumes will be added to it. The library also has about 7,000 volumes of sample elementary and secondary textbooks and juvenile literature, and a collection of about 4,000 pam-

phlets and other ephemera.

The library is a selective depository for U.S. Government documents. This collection will reach a total of about 36,000 items in the course of the academic year. The library is also a depository for the California Curriculum materials, which

will reach about 2,000 items during the year.

In addition to these collections the library has about 5,500 reels of microfilmed U.S. Government documents, chiefly State Department records, but also including such things as the Congressional Record and various Presidential Papers; about 8,000 reels of other microfilmed materials, mostly files of newspapers and periodicals; and about 5,000 volumes on micro-opaque cards and sheet microfilm. Readers for these materials are available in the Periodicals and Documents area.

The library subscribes to about 1,500 periodicals. In addition to the filmed backfiles mentioned above, the periodicals collection contains about 6,000 bound

volumes.

Besides attempting to build a balanced collection of basic works, the library, as a part of its development program, has concentrated its efforts in several subject areas. As a result, relatively strong collections are now available in such fields as World War II, international relations since 1870, Kant, Shakespeare, Melville, Joyce, historiography and historical bibliography, and contemporary music. These collections will increase in strength and number during the next several years.

Library hours are posted at the main entrance. A library handbook is available at the Reference Desk. Professional librarians are on duty at all times to aid

students and faculty in the use of library resources.

SUMMER SESSIONS

The College conducts a six-week summer session followed immediately by a four-week summer session. There will also be a dozen two-week and three-week workshops running concurrently. The six-week session begins June 21 and closes July 30, while the four-week session begins August 2 and closes August 27. Day and evening classes are scheduled, and credits earned in the summer sessions meet degree and credential requirements with the same validity as credits secured in the fall and spring semesters. A maximum of one unit of college credit may be earned for each week of attendance.

In addition to much of the regular curriculum, summer offerings include special workshops and seminars for teachers and other professional groups. A program of recreational activities is planned to serve a wide variety of interests.

A tuition fee of \$17.00 per unit is charged, plus an associated student membership fee of \$2 per person. The Summer Session Class Schedule announcing all courses is published in March or earlier, and may be obtained by writing the Dean of Educational Services and Summer Session.

EXTENSION PROGRAM

Off-campus classes offered by the College are organized under the Extension Program. Such work is given in response to a need from persons who, because of distance from the campus, find it difficult to take residence courses. In some instances, extension classes may be undertaken at locations nearby because of special facilities which are not available on campus.

Extension courses may be planned for those wishing to earn college credit and under certain conditions this credit can be applied toward a degree or a credential. Courses may be modified and designed to meet the particular needs of

certain groups and may be initiated at various times during the year.

Tuition for extension courses is \$10 per unit for lecture courses, \$13 per unit for activity courses, and \$20 per unit for laboratory courses (subject to change). For full details concerning extension work, write the Dean of Educational Services and Summer Sessions.

INTERNATIONAL PROGRAMS

The California State Colleges offer academic year programs of study at a number of distinguished universities abroad. In 1965-66 the cooperating universities are: University of Aix-Marseille, France; Free University of Berlin and University of Heidelberg, Germany; Waseda University, Tokyo, Japan; University of Granada and University of Madrid, Spain; University of Stockholm and University of Uppsala, Sweden; National University, Taiwan. Academic work successfully completed at the cooperating universities abroad may be applied toward the degree requirements of the College in accordance with college regulations.

A selection among applicants from all California State Colleges is made on the

basis of academic, linguistic and personal qualifications. The criteria are:

 upper division or graduate standing by the beginning of the academic year abroad;

- b) Academic achievement;
- c) Proficiency in the language of instruction;
- d) Faculty recommendations.

Cost to the student includes round trip transportation from San Francisco to the host university, room and board for the academic year, and medical insurance. In 1965-66 these costs are: France, Germany, Italy, Japan, Spain: \$1,670; Sweden, \$1,870; Taiwan, \$1,270. Payments may be scheduled throughout the year.

Programs in Japan, Sweden and Taiwan do not require previous linguistic preparation; applicants for all other programs must demonstrate adequate facility

in the language of instruction at the host university.

Application for the 1966-67 academic year should be made early in the fall semester, 1965. Detailed information may be obtained at this College or by writing to the Office of International Programs, The California State Colleges, 1600 Holloway Avenue, San Francisco, California 94132.

THE CALIFORNIA STATE COLLEGE FOUNDATION

The California State College Foundation was established and incorporated in October 1959 to "provide essential student and faculty services which cannot be provided for from state appropriations; to supplement the program and activities of the College in appropriate ways; and to otherwise assist the College in fulfilling its purposes and in serving the people of the State of California—especially those of the area in which the school is located.

Services provided by the Foundation include the operation of various College auxiliary organizations, administration of scholarship and student loan funds,

sponsored research programs and certain institutes.

The Foundation's over-all policies are administered by a Board of Trustees made up of members of the College faculty and administration. An advisory council to the Foundation composed of leading industrial, scientific, business and civic leaders has also been established to provide the Board with counsel and advice.

STUDENT PERSONNEL SERVICES

Student Personnel Services at the College are centered in the Office of Admissions and Records, the Counseling and Testing Center, the Activities and Housing Office, the Office of Placement Services, and the Student Health Center. Collateral responsibilities include foreign student counseling, the state college overseas program, veterans' affairs, and financial aids. Coordination of this general program rests with the Dean of Students.

STUDENT ACTIVITIES

The College recognizes the important role of student activities in education. The activities program represents a variety of areas intended to serve every student

according to his interest, ability and available time.

All registered students are members of Associated Students of California State College at Fullerton. The Associated Students are governed through the executive, legislative, and judicial branches of the Associated Students organization. The president and commissioners constitute the executive branch which has the responsibility for the development and administration of the program, including such activities as publications, drama, religious clubs, intercollegiate athletics, intramural athletics, forensics, and music. The Associated Students Senate has full responsibility for legislation by which this program is directed and for the allocation of student funds for the program. The judicial branch serves as the legal body for interpretation of the constitution and enforcement of Associated Student policies.

Student Organizations

Student organizations are encouraged and aided by the College whenever students express a desire for activities which add to their educational opportunities. As a relatively young institution, the development of new organizations to serve the needs of a growing student population is rapid. Organizations currently exist with their major emphasis on service, social activities, special interests, religious interests, professional interests, and academic honors. Several instructional departments sponsor honor societies in recognition and encouragement of excellence in scholarship.

Student Publications

The weekly College newspaper, the Titan "Times," is a product of the journalism classes and financed by the Associated Students. In addition, a handbook is available for use by organizations in the development and operation of their program. The "Promethean," a literary magazine, is also published by students. The yearbook, the "Titan," published annually by the Associated Students, records the year's activities.

Student News Bureau

The Student News Bureau was organized in 1960 to provide the outside press with news of student activities on the campus. It is financed by a budgeted allocation from Associated Students and is supervised by the College Publications Manager.

Athletics

A year-round program of intramural athletics includes flag-football, softball, tennis, golf, volleyball, basketball, and other sports. Participation by students and faculty is encouraged. Intercollegiate athletics consist of teams in cross-country, gymnastics, basketball, tennis, golf, baseball, and track. New sports will be added to the program as facilities and staff become available.

Beginning with the 1965-1966 season, home games will be played in the California State College at Fullerton gymnasium. As an independent in athletics, the College is afforded flexibility in scheduling athletic contests with many colleges and uni-

versities on the West Coast.

In the Spring of 1960, a group of Orange County citizens organized a Boosters Club to help foster wholesome intercollegiate athletic competition at California State College at Fullerton. Its members are dedicated to the encouragement of a sound program of athletics and are contributing financially and by way of enthusiasm to helping to develop a first-rate athletic program based on a well-rounded concept of the relationship between sports and academic achievement. All athletic teams compete under rules of the National Collegiate Athletic Association (NCAA). Membership is also held in the National Association of Intercollegiate Athletics (NAIA).

Intramural Activities

In cooperation with the Office of the Associate Dean of Students, Activities, the intramural program is conducted on a seasonal basis and involves a variety of athletic and recreational activities for both men and women. Rules and regulations which govern participation in the intramural program are available in the Office of the Director of the Intramural Program or in the Office of Student Activities.

Housing

The College provides housing for unmarried students in its two modern residence halls. Designed for educational living, the halls have study areas for each student, plus lounge areas for speakers and discussion groups or meetings. Ample social and recreational facilities are available.

Each room has its own private bath. The buildings are fully air-conditioned and carpeted. The dining hall is between and attached to the two residence halls.

The head resident and resident assistants of each hall promote a program which supports and expands the classroom experience. The resident has the opportunity to study, assume responsibility through hall government, and discuss serious topics of the day with guest speakers while in a healthful living situation.

Because of the importance of the living arrangements to educational achievement, California State College at Fullerton requires that all students under 21 years of age, who are not married, must live either at home or in college-approved

housing. Approved housing is at present limited to the residence halls.

STUDENT HEALTH SERVICES

The Student Health Center is open to students during the day, Monday through Friday, for consultation and limited treatment. Under the direction of the College Physician, emergency treatment is available, and health examinations for credential purposes are given. A panel of consulting specialists has been established and its members utilized according to specific needs. At the time of application for admission, a health history form is completed which is filed in the Health Center where all student health records are kept. Students requiring credential examina-

tions may have them completed by their own physicians if desired. Otherwise, appointments for this purpose may be made in the Student Health Center.

All undergraduates, regardless of the number of units to be taken, must, upon admission, submit completed Health History and Physical Examination forms. In addition, evidence of a negative chest X-ray, taken within 12 months prior to the opening of College, must be presented. The tuberculin skin test may be obtained in lieu of an X-ray without cost at the Student Health Center. Evidence of a smallpox vaccination within the past five years is also required.

Purpose

The purpose of the Student Health Center is to help keep the student in class by providing high quality medical service early in the course of an illness, to provide a healthy and a sanitary environment on campus in which to live and study, to stimulate better health awareness among the students, and to educate them to the high standards of good therapeutic and preventative care.

Location and Hours

The Student Health Center is located in the Letters and Science Building, Suite #580. It is open from 8 a.m. to 5 p.m. each week day that classes are in session. No staff is available for night or weekend services of any kind, and there are no off-campus calls made at any time.

Services offered

1. Diagnosis and treatment of the usual medical and surgical problems.

Physical examinations for: (a) teacher's credential purposes, (b) varsity athletics, and (c) student food handlers.

3. Emergency care.

4. All routine immunizations.

5. Laboratory facilities.

Follow-up care as may be recommended by the student's private physician within the scope of available facilities.

7. Electrocardiograms.

8. Physical therapy treatment.

9. Medical counseling.

10. Psychiatric counseling and diagnosis.

11. Specialist's care for all types of skin problems.

Fees for Service

All fees for care in the Student Health Center, unless otherwise specifically stated, have been prepaid by the State of California and by the student's registration fee. All undergraduates and all graduates registering for more than 6 units of credit are eligible for any or all of the health services offered. *Emergency* service is available to everyone on campus.

Health, Accident, Hospital Insurance

All students are urged to carry this type of insurance. An excellent policy at a low premium is available to all students through the Associated Students' Business Office.

ALL students living in college sponsored residence housing are required to be covered by an acceptable policy of this type.

Health Requirements for Admission of Graduate Students

Graduate students taking more than six units in any semester must meet the same health requirements as those for undergraduate students, including a complete physical examination by a private physician.

Graduate students taking six units or less in any semester must comply with the

following:

1. Filing a minimum informational form with the health center.

- 2. Presenting evidence of a negative chest X-ray or a negative tuberculin skin test, signed by a physician, nurse, or public health department official and dated not more than twelve months prior to the date of registration at California State College at Fullerton.
- 3. Evidence of a smallpox vaccination within the past five years.

Graduate students are urged to meet the application deadline as announced in the College Calendar, and to have all health requirements completed well in advance of registration. However, students who are unable to accomplish this may be admitted provisionally at a date specified by the College and given 90 days thereafter to complete the requirements. Failure to do so will result in dismissal from the College.

PLACEMENT SERVICES

A centralized Placement Office is maintained with responsibilities for assisting students in finding both part-time and career employment. The College believes that it best serves both the student and employers only when its graduates have been placed in the professions for which they prepared and trained.

Part-time Placement

Students wishing part-time jobs either on or off campus are eligible to receive the assistance of the office if they are taking seven (7) units or more. New students may receive service as soon as they have notice of their admission to the College. Secretarial skills are in great demand; but calls for school bus drivers, custodians, teacher aids, draftsmen, waiters, clerks, youth and recreation leaders, sitters, gardeners, etc., are received. If students must augment their resources while going to school they are encouraged to limit their work hours to approximately ten (10) per week.

Educational Placement

Students in the teacher education, pupil personnel services, supervision, or administration curriculum of the College, who are in the final semester of a credential program, or who are in student teaching or directed field work, are eligible to register and receive the services of the Placement Office, chief of which is help in establishing a professional employment file. Such registrants are supplied information on openings and helped to establish their candidacies in the school districts and educational institutions.

Business, Industry, and Government Placement

The Placement Office's assistance to students seeking career employment in business, industry, or public service involves help in defining occupational preference, providing active job leads, making up résumés, and arranging interviews on and off campus.

COUNSELING SERVICES

Counseling

Students who need assistance with such problems as choosing an academic major or vocational goal, with study skills, or with personal problems affecting their academic progress may obtain help through the Counseling Center. The staff consists of professionally trained counseling psychologists who have available a variety of resources including occupational information files, special testing materials, college catalogs, and directories of various kinds which may be used to assist the student.

The Counseling Center also maintains contact with agencies and professional persons in the community to whom students may be referred.

Testing

Testing programs are designed to serve a variety of purposes:

- The primary purpose is that of giving instructional faculty and Counseling Center personnel supplementary information to use in helping the individual student.
- 2. Test results are also used to aid in the selection of students who are applicants for admission to the College, and to various programs within the College.
- A third use is that of identifying students who have deficiencies in specific skills, such as English usage and mathematics.

Testing requirements for students seeking admission are listed in the Admissions section of the catalog. Students seeking information about testing requirements for specific programs should inquire in the appropriate instructional division or the Counseling Center.

Orientation

An orientation program for new students is conducted at the beginning of the registration period each semester. At this time, information relating to academic planning, student services and activities, and other aspects of college life as well as opportunities for student questions are provided.

Foreign Students

Special services for foreign students are coordinated by the Foreign Student Adviser. These services include legal problems concerning visa status and employment; orientation to academic procedures and requirements; advisement related to finances, to social standards and customs; and to resources and opportunities offered by campus and community.

International Programs

Information concerning study opportunities for American students in foreign universities is available in the Counseling Center. The Foreign Student Adviser coordinates the selection of students applying for admission to one of the International Programs operated by the California State Colleges in seven foreign countries.

FINANCIAL AIDS

Scholarships

A limited number of scholarships are available for outstanding students. Qualified students should obtain scholarship applications from the Financial Aids Officer and return by April 15 for the Fall semester and December 15 for the Spring

semester. Scholarship applications are carefully evaluated by the Financial Aids Review Committee, and awards are based on previous scholastic record, personal qualifications, and financial need. Some scholarships are awarded to students majoring in specified fields; departmental recommendations are heavily weighted in such instances.

Emergency Loans

As a result of the generosity of individuals and groups interested in California State College at Fullerton, an Emergency Loan Fund has been established to provide temporary assistance to students in financial need. Applications should be made to the Financial Aids Officer.

National Defense Education Act

California State College at Fullerton participates with the Federal Government and the State of California in making loans available to students under the provisions of the National Defense Education Act. Details and applications are available at the Financial Aids Office. Deadlines for submission of applications are December 10 for the Spring semester, April 1 for the summer session and August 15 for the Fall semester.

United Student Aid Funds

Long term loans to help finance college expenses are also available to deserving students who have completed the freshman year. USA Funds, a private, non-profit corporation, will endorse low-cost, long-term bank loans upon recommendation of the College. The College also participates through contributions to the USA Funds reserve.

A maximum of \$1,000 a year—or a combined total of \$3,000—may be borrowed for undergraduate and/or graduate education. The student repays the loan in 36 installments beginning four months after he leaves school. Interest maximum is 6 percent simple. Applications and information are also available from the Financial Aids Officer.

ADMISSION TO THE COLLEGE

Admission standards in the California State Colleges are prescribed by the Trustees of California State Colleges and are stated in the California Administrative Code, Title 5,* Education, which provides a uniform pattern of admissions regulations for all the colleges. As the result of an extensive study, California State Colleges Trustees are expected to revise admission requirements for entering freshmen in the Fall of 1965. High School students who are planning to apply for admission to a state college at that time should consult with their high school counselors about the new freshmen admission standards during the Spring 1965 semester. Counselors will be informed of these new requirements and all developments concerning them as the year goes on.

Admission of Freshmen

A high school graduate must meet one of the following requirements, (a) or (b). All freshmen applicants must also complete the required entrance examination in order that their applications be considered. The College requires students to submit the results of either the American College Test (ACT) or the Scholastic Aptitude Test (SAT).

(a) The applicant must have earned 14 or more semester grades of A or B in subjects, taken during the last three years of high school, other than physical

^{*} The detailed and legal statement of the requirements for admission to the state colleges is to be found in the California Administrative Code, Title 5, Education, section 40600-41200.

education, military science and remedial courses. Ten of the 14 grades must be in college preparatory subjects selected from one or more of the following fields (no specific course pattern is required):

- (1) English, including speech, drama, and journalism, other than activity courses.
- (2) Foreign languages.
- (3) Mathematics.
- (4) Natural Sciences.
- (5) Social Sciences.
- (b) The applicant must have earned 10 or more semester grades of A or B in subjects, taken during the last three years of high school, other than physical education, military science, and remedial courses, and have achieved a score at or above the fortieth percentile on national college freshmen norms of a standard college aptitude test. State College requires students to submit the results of the American College Test (ACT) or the Scholastic Aptitude Test (SAT).

The Admission of Undergraduate Transfers

An applicant who meets the requirements for admission with freshmen standing and who has earned credit in one or more accredited junior colleges, colleges, or universities may be admitted if he has a grade point average of 2.0 (grade C on a five-point scale) or better in the total program attempted at such colleges or universities and is in good standing at the last degree-granting college or university attended.

An applicant who does not meet the requirements for admission with freshmen standing must as a condition for admission have earned 60 or more units of college credit with a grade point average of 2.0 (grade C on a five-point scale) or better in the total program attempted and must be in good standing as noted above.

Procedures for Admission (All Undergraduate Students)

All students, both full-time and part-time, will be required to matriculate.

- (1) Submit a completed Application for Admission accompanied by the \$5 required application fee.
- (2) Have the high school of graduation send directly to the College a transcript of record.
- (3) Have each college attended (if any) send directly to the College a transcript of record.
- (4) Submit the scores from one of the two national testing programs described below.
- (5) Submit health history and physical examination forms to the Student Health Center. Complete other requirements.

UNDERGRADUATE ENTRANCE TESTING REQUIREMENTS

ALL new undergraduates applying for admission to Cal State-Fullerton for Spring 1965 and Fall 1965 are required to submit scores from one of two national testing programs before permission to enroll in classes will be granted. This requirement DOES NOT affect:

- (a) Students who have a bachelor's degree from an accredited institution at the time of entrance.
- (b) Undergraduate students who have previously attended Cal State-Fullerton and who have completed the entrance tests required at the time of their first admission.

Tests will be administered at established test centers on the dates shown below:

OR

AMERICAN COLLEGE TESTING PROGRAM (ACT)							
Marane applicant who, i	Registration						
Test Date	Deadline						
Fall '65 Feb. 20, 1965 April 24 June 19 Aug. 7 # Sept. 3 * Spr. '66 Nov. 13 Jan. 29, 1966*	Jan. 23 April 3 June 5 July 5 Aug. 21 Oct. 16 Jan. 15						
SEND REGISTRATION FORM TO: American College Testing Program							
P. O. Box 21-4127 Sacramento, California 95821 Enclose \$4.00 Fee							

Cal State-Fullerton Code No. for

				At 3 halper by	The state of	Sea Earl		
	SCHOLASTIC APTITUDE TEST							
	(SAT) OF THE COLLEGE							
10	ENTRANCE EXAMINATION							
	BOARD							
	Test Date				Registration			
					Deadline			
	Fall '65	Mar.	6, 1	965#	Feb.	6		
		May	1	#	April	3		
	STEELING SHA	July	14	#	June	16		
3	Spr. '66	Dec.	4		Nov.	6		
	eineamen a	Jan.	8, 1	966	Dec.	4		
4	CENT	DEC	CTD	ATIC	NI FOT			
	SEND REGISTRATION FORM TO:							
	College Entrance Examination Board							
	Box 1025							
	Berkeley, California 94701 Enclose \$4.50 Fee							
	Cal State-Fullerton Code No. for Score Reports=4589							

^{*} Special administration at Cal State-Fullerton only. Register through Sacramento office. Scores will be reported to Cal State-Fullerton only.

Test NOT administered on Cal State-Fullerton campus. (See Bulletin of Information.)

To take one of these tests:

Score Reports=0355

- 1. Obtain a registration form and a Student Information Bulletin from your high school or junior college counselor, from one of the addresses above, or from the Cal State-Fullerton Testing Center (Room 264). Select a test center near your home from the list printed in the Bulletin.
- Send the completed registration form and the appropriate test fee to the address shown in the box above. DO NOT SEND TO THE FULLERTON CAMPUS.
- 3. Have your ACT or SAT scores reported to the Testing Center, California State College-Fullerton. Use the appropriate Code Number for Score Reports on your registration form.

If you have already taken either ACT or SAT, send \$1.00 to the appropriate testing agency and request that scores be reported to the Cal State-Fullerton Testing Center. Use appropriate code number when requesting such reports, and provide *complete* information concerning Test Date, Test Center, Name and Address changes, etc.

Additional tests may be required for placement in freshman classes and are required for admission to public school credential and graduate programs. Information about the specific requirements may be obtained from the Division Offices concerned, or from the CSCF Testing Center.

Admission of Graduate Students

All graduate students will be admitted in Unclassified Status. This requires submission of proof of an acceptable bachelor's degree from an accredited college or university; or equivalent academic preparation, as determined by the College.

Admission with Unclassified Status does not constitute admission to graduate degree or credential curricula. Students seeking master's degrees should consult "Procedures in Graduate Study," page 49, and students seeking credentials should refer to the Education Division section of this Catalog. It is essential that students determine their degree or credential objectives as soon as possible, even though they are taking prerequisite courses.

Procedures for Admission—Graduate Students

- A. Students planning to work toward a master's degree or credential at California State College at Fullerton will follow the procedure shown below:
 - 1. Submit a completed Application for Admission, accompanied by the required \$5 application fee, stating the degree or credential desired, even though prerequisites may not be completed. This should be accomplished prior to the deadline for applications appearing in the College Calendar.

2. Have each college attended send directly to the College duplicate (two)

transcripts of record.

3. Complete appropriate health requirements (see page 51).

(Students unable to meet all of the above requirements prior to registration will be permitted to file application materials and register at a date to be specified by the College on a provisional basis. Such students must be fully matriculated within 90 days after registration. Failure to do so will result in designation as a graduate student without a degree or credential objective.)

- B. Students not planning to work toward a degree or credential at California State College at Fullerton and wishing to take a maximum of 6 units any semester will submit the following:
 - A completed Application for Admission, accompanied by the required \$5
 application fee.

2. Satisfactory proof of degree; e.g., college diploma.

3. Complete appropriate health requirements (see page 51).

Such students receive no regular advisement and place their master's degree or credential programs, and credit for course work taken (as applicable to a master's degree or credential) in jeopardy.

Admission of Foreign Students

At the present, the College does not accept foreign student applicants directly from foreign countries, with certain rare exceptions. Only two categories of foreign students will normally be accepted:

(1) Those who have completed a two year transfer program in a junior college in the United States with a good academic record.

in the Officed States with a good academic record.

(2) Those who have completed a bachelor's degree in an accredited college in the United States and wish to enroll as graduate students.

Application procedures are the same as for other students, except that foreign language transcripts must be accompanied by certified English translations.

Admission From Non-Accredited Colleges

An applicant who has attended a non-accredited college or university may be considered for admission to a state college if he meets the standards listed for transfers from accredited colleges and universities.

Admission on Academic Probation

An applicant who does not meet the requirements set forth above is eligible for admission with advanced undergraduate standing on probation, if in the opinion

of the proper college authorities, he is likely to succeed in college.

Ordinarily, consideration for probationary admission is granted only to the mature applicant who, while his total college record does not meet the admission requirements, has demonstrated good academic ability through recently completed college work elsewhere.

Applicants who are admitted with a grade point deficiency are given probationary status and are expected to remove the entrance deficiency during the first year at the College. A student admitted on probationary status may be restricted

by his adviser to a limited program.

Admission of Auditors

A properly qualified student may register in classes as an auditor without credit, provided there is room. An auditor need not meet the regular standards for admission, but must pay the same fees as other students. An auditor may not change his registration to obtain credit after the last date to add courses to the study list. An auditor is not permitted to take examinations in the course. No credit will be granted toward a degree or credential for such courses.

Admission to Credential Programs

Admission to the College as a student does not constitute admission to the teaching credential program. Students who intend to work toward credentials must make application to the Division of Education during their first semester of attendance. Details are available from the Division of Education.

Cancellation of Admission

A student who is admitted to the College for a given semester but who does not register in the specified semester will have his admission cancelled. The student must file a new application form when he again seeks admission and must meet the current admission requirements.

Readmission

Students in "good standing" may be readmitted to the College after an absence of one or more semesters by filing a new Application for Admission. Unless the student has applied for and been granted a formal leave of absence, the catalog requirements in effect at the time of readmission will be ruling. Students who have attended another institution since their last attendance at California State College at Fullerton must have a transcript of record from that institution sent directly to the Office of Admissions.

Readmission After Academic Dismissal

A student may apply to the Office of Admissions for readmission after academic dismissal upon completion of the period of dismissal.

The Summer Session Student

The college does not require an advance application or transcripts from all students registering for credit courses in the Summer Session. However, students must be high school graduates and are expected to have satisfied the prerequisites for the courses in which they register. Admission to Summer Session does not grant admission to the regular session.

EVALUATIONS

Evaluation of Transfer Credits

The Office of Admissions will evaluate previous college work in terms of its relationship to the requirements of California State College at Fullerton. All degree and credential candidates will be issued a Credit Summary, which serves as a basis for determining specific remaining requirements for the student's specific objectives. Once issued to a student, the evaluation remains valid as long as the student matriculates at the date specified, pursues the objective specified, and remains in continuous attendance. The student will not be held to additional graduation requirements unless such requirements become mandatory as a result of changes in the California Administrative Code or the California Education Code. If the student does not remain in continuous attendance and has not applied for and been granted a formal leave of absence, the evaluation issued upon readmission will specify the remaining requirements for the student's specific objectives.

In view of the foregoing regulations, the student should notify the Office of Admissions immediately if he changes the objective specified in his evaluation. While the evaluation for a student remains valid, the student is held responsible for complying with all changes in regulations and procedures which may appear

in subsequent catalogs.

Acceptance of Credit

Credit for work completed at accredited institutions will be accepted toward the satisfaction of degree and credential requirements at the College within limitations of residence requirements, junior college transfer maximums, and course applicability.

General Policy

Transfer credit is not limited to those courses which precisely parallel the courses offered at the College. Credit is normally granted for all courses completed at other accredited institutions which reasonably correspond to one of the various curricula described in this Catalog. Courses which do not appear to correspond with offerings at the College are ordinarily not granted transfer credit. Courses in vocational or shop-type courses, and remedial courses are examples of courses not accepted for transfer credit. Students who have completed work at professional schools in the field of art or music or similar fields may expect a reduction in credit if the work completed carries a credit value in excess of that normally allowed for corresponding courses or areas at the College.

Transfer of Credit From a Junior College

Upper division credit is not allowed for courses taken in a junior college. Credential credit is not allowed for courses in professional education taken in a junior college. This does not invalidate credit for pre-professional courses taken at a junior college, such as introduction to education, art or design, arithmetic and/or music for classroom teachers. After a student has completed 70 units of college credit, whether at a junior college or a four-year institution, or at both, no further junior college units will be accepted for unit credit.

Credit for Military Service

Students who have been in military service for at least a year may be granted six units of credit. Courses taken in service schools may be given credit on the basis of an evaluation which determines that they are of college level. Any credit for military experience will be given only upon request. Records verifying such experience must be filed with the Office of Admissions.

Credit for Extension and Correspondence Courses

The maximum amount of credit through correspondence and extension courses which may be allowed toward the bachelor's degree is 24 units, of which not more than 12 may be transferred from another college or university.

Credit by Advanced Placement

Students who have successfully completed courses in the Advanced Placement Program shall be granted credit toward graduation, advanced placement in the College's sequence courses, and credit for curriculum requirements upon the approval of the major adviser and the chairman of the department(s) affected.

Credit by Examination Policy

Students may be granted credit for a course toward graduation and to meet curriculum requirements by the satisfactory completion of a "Challenge Examination" in that course requirement. The examinations are to be comprehensive and administered by the department in which the course is offered. Well in advance of the "Challenge Examination" for a course, the student will secure the written approval of his major adviser, the chairman of the department in which the course is offered, and the business office to indicate that an appropriate fee has been paid. Upon the successful completion of the examination the notation on the permanent record of the student will be made as "CR" for the course. Upon failure of the examination, the notation on the permanent record of the student will be made as "F" for the course. (CR is to indicate credit for the course with a passing grade.) Credit by examination may not be used to fulfill the minimum residence requirements. The "Challenge Examination" for any course may be attempted only once.

Academic Advisement

All undergraduate students working toward a degree or credential are assigned an adviser in the major field. Those seeking a credential will also be assigned a professional adviser in the Division of Education.

Graduate students in all divisions except Education will be assigned a major adviser. In Education, all will have a professional adviser. Those students seeking a credential for teaching in secondary schools will be assigned both a professional

adviser and a major adviser.

Advisers are assigned by division chairmen. The adviser is basically a resource person who will help the student plan his academic program so that he meets the requirements of the major or credential objective in the most desirable manner. While the adviser can provide valuable information and suggestions to the student, the ultimate responsibility for the program the student plans and the courses he chooses lies with the student himself.

Premedical Preparation

Medical schools are currently seeking applicants with as broad and liberal an educational experience as possible. They recommend that applicants pursue collegiate major programs which are of vital interest to the student. However, all medical schools require a basic minimal training in the natural sciences which includes the following course work:

one year of general biology or zoology with laboratory

one semester of embryology

one year of inorganic college chemistry including qualitative analysis with laboratory

one semester of quantitative analytical chemistry with laboratory

one semester of organic chemistry with laboratory

one year of college physics with laboratory

Most medical school applicants complete a baccalaureate degree program prior to beginning their medical training. However, applications to medical school are processed normally at the termination of the sixth semester (junior year). The medical college admission test, required of all medical school applicants, is taken normally during the Spring of the sixth semester (junior year). The prospective medical school applicant should therefore normally plan to complete the above natural science minimal requirements by the end of the junior year. Thus he should begin inorganic chemistry in his freshman year in order to satisfy the prerequisite requirements for the advanced courses in chemistry.

Since medical school admissions are limited, the best prepared applicants are likely to have an advantage. Many medical schools recommend certain courses in the natural sciences in addition to those listed above in the minimal requirement. The prospective applicant is advised to consult the catalogs of those medical schools to which he anticipates applying for additional recommended preparatory subjects. He is further advised to consult a member of the Premedical Committee for assistance in planning his total collegiate program and to obtain copies of optimal

programs from the Chairman of the Premedical Committee.

REGISTRATION

Registration is the final step in the matriculation process. When a student has been admitted by the Office of Admissions and has decided in a conference with his assigned adviser which subjects he wishes to take, he is ready for registration.

A Class Schedule containing details regarding courses offered and procedures to be followed for registration is made available prior to the beginning of each

semester and summer session.

At the time of registration, every student is required to file a program card with the Office of the Registrar. The filing of a program card by the student and its acceptance by the College is evidence of an obligation by the student to perform the designated work to the best of his ability. It is strongly recommended that all undergraduates declare a major at the earliest practicable time and not later than at the time they have completed 60 units of college work. Withdrawal from, or neglect of, any course entered on the program card, or a change of program (including a change of section of the same course) without the formal permission of the Office of the Registrar, will result in a grade of F.

A student may not receive credit in any courses in which he is not registered.

FEES AND EXPENSES	
Application Fee (non-refundable)	\$5.00
Registration Fees	chooses lies with the student
Regular Students Materials and service fee Associated Students fee	\$38.00 9.00
Total per semester	\$47.00
Limited Students (1-6 units) Materials and service fee Associated Students fee	\$19.50 4.00
Total per semester	\$23.50
Music Studio Lesson Fee Per semester	\$70.00

Language Co. St. W. The Autonomy Record Record and he recorded	
Per unit or fraction of unit Associated Students fee	\$17.00 2.00
Extension Fees Per unit or fraction of unit	-\$20.00
Other Fees or Charges	
Non-Resident tuition fee (in addition to fees required of resident students, except for enrollment in extension or summer session):	
15 units or more per semester	\$250.00
Less than 15 units, per unit or fraction of unit	16.50
Non-Resident Foreign Students	
15 units or more per semester	\$127.50
Less than 15 units, per unit or fraction of unit	8.50
Late registration fee (in addition to other fees listed above)	5.00
Check returned from bank for any cause	2.00
Change of program fee	1.00
Transcript fee (no charge for first copy)	1.00
Failure to meet administrative required appointment or time limit (Special aptitude examinations, failure to keep appointments for health exam-	

Auditors Pay the Same Fees as Others

Fees are subject to change by the Trustees of the California State Colleges

Refund of Fees

Upon withdrawal from College, the Materials and Service Fee may be refunded if written Application for Refund, on forms provided by the College, is submitted to the Registrar not later than 14 days following the day of the term that instruction begins; provided that the amount of \$2.00 shall be retained to cover the cost of registration. Late registration fees, change of program fees and application fees are not refundable.

The entire fee may be refunded in the event a student is unable to continue his registration because of a college regulation or because of compulsory military service. Application for refund under such circumstances may be made at any time prior to the date when the student receives any academic credit for the courses

for which he is registered.

ination, special final examinations)

The difference between the applicable materials and service fee, less \$2.00, may be refunded if the unit load of the student is reduced to a lower materials and service fee category within the 14 days following the day of the term that instruction begins.

arking Fees	
Per Semester (Non-Reserved Spaces):	
Students taking more than 6 units	\$13.00
Students taking 6 units or less	6.00
Extra vehicle	1.00
Coin Operated Parking Gate-per admission	.25
Two Wheeled Vehicle, 25% of above schedule of fees.	
Summer Session	
6 Week Period	5.00
4 Week Period	3.00

Typical Student Expenses

Although each student must determine his own budget in keeping with his individual needs and resources, the College does provide an estimate for what is

considered one semester's minimum expenses for a single student. Not included are transportation costs, since distance from home varies with each student.

	Students living in Campus Residence Halls	Commuting Students
Materials and service fee *	\$38	\$38
Associated Students Fee	9	9
Parking and Health Insurance fees	21	21
Room and Board (17 meals per week)	500	A. 18 May 11
Books and Supplies **	60	60
Clothing	50	50
Miscellaneous	100	100
	Hed to the letter	Ten ment
	\$778	\$278

^{*} Out-of-state students add \$250. Music students add \$70 for music lesson fee. ** Art students should budget additional funds for supplies.

RECORDS

Grade Reports to Students

A report of the final grades assigned in classes is sent to each student at the end of each semester.

Transcripts

Upon request to the Office of the Registrar, each student will be provided with one official copy of his college record without charge. A charge of \$1 will be made for each additional transcript requested by the student. No transcript will be supplied for college work taken in other institutions.

VETERANS

California State College at Fullerton is approved by the Bureau of Readjustment Education, State Department of Education, to offer programs to veterans seeking benefits under state and federal legislation. All students seeking veterans benefits must have a degree or credential objective.

Applications for benefits should be filed well in advance of the semester in which the veteran plans to use these benefits in order to have the authorization at the time

of registration.

P.L. 550

Application

If the veteran has attended an institution under P.L. 550 benefits before, the veteran must file an Application for Change of Place of Training (VA form 1992) through the Office of Veterans Affairs at the institution last attended under P.L. 550 benefits.

If the veteran has not attended an institution under P.L. 550 benefits before, application forms may be obtained from the Veterans Adviser at California State College at Fullerton.

Monthly Certification

Each month, the veteran must obtain an Attendance Report Form from the veterans adviser. This form must be signed by each of the veteran's instructors on the last class meeting of the month. This signature will verify satisfactory attendance for the month. When completed, the Attendance Report Form must be returned to the veterans adviser and the veteran must sign the IBM certification card that is forwarded to the VA. The Attendance Report Form must be returned to the veterans adviser on or before the 5th of the month to ensure receiving the subsistence check on time.

ACADEMIC REGULATIONS

Students who have been admitted to the College are required to register each term at announced times and locations. Registration is not official until fees have been paid, and no student is allowed to attend classes until all steps in the registration process have been completed.

A number of Academic Regulations related to registration are listed below, and all students are expected to be familiar with them as well as other pertinent portions

of the college catalog.

Statement of Residence

A Statement of Residence must be completed prior to registration for each student, day or evening. No student in continuous attendance during successive semesters is required to file a Statement of Residence after the initial filing. Any break in attendance, however, does require a new Statement of Residence.

Late Registration

The last day to register late each semester will be announced in the Class Schedule. The College Calendar in the front of this catalog contains 1964-1965 registration dates. Late registrants will find themselves handicapped in arranging their programs and must by state law pay a \$5 late registration fee in addition to regular fees.

Change of Program

Each student is responsible for the program of courses listed at the time of registration. Changes may not be made thereafter without the filing of a Change of Program form in the Office of the Registrar. All applications for courses dropped or added incur a \$1 Change of Program fee.

Withdrawal from College

Students who wish to withdraw from the College must complete a Withdrawal From College card. See section on Refund of Fees for possible refunds. No student may withdraw after the date shown on the College Calendar as the last day of instruction.

Grades for Withdrawal

Through the 6th week of instruction in the semester, the grade for withdrawal will be an automatic "W." Beginning with the 7th week, grades assigned will be "W" if the student is passing at the time he withdraws, or "F" if the student is failing at the time he withdraws.

Concurrent Enrollment

A student enrolled at the College may enroll concurrently for additional courses at another institution only with advance written approval from the student's academic adviser. Permission will not be granted when the study load in the proposed combined program exceeds the units authorized at this College.

Physical Education

Students under 25 years of age who have not completed 4 semesters of physical education activity courses in a junior or 4-year college are required to do so to fulfill graduation requirements.

Leave of Absence

When circumstances beyond the student's control, such as illness or military service, make it impossible to remain in continuous attendance at the College, a leave of absence can be given upon approval of a petition for such a leave. This action protects the student's rights in effect at the time he ceases attendance. It is the responsibility of the student to file the required form in the Office of Admissions and Records.

Election of Regulations

A student remaining in continuous attendance in regular sessions and continuing on the same curriculum in a state college may, for purposes of meeting graduation requirements, elect to meet the graduation requirements in effect either at the time of his entering the curriculum or at the time of his graduation therefrom, except that substitutions for discontinued courses may be authorized or required by the proper College authorities.

OTHER DEFINITIONS AND REGULATIONS

Unit of Credit

Each college semester unit represents three hours of college work per week for one semester. Courses are of three types:

- (1) Lecture—one hour in class plus two hours of study.
- (2) Activity-two hours of class plus one hour of study.

(3) Laboratory-three hours in class.

Some courses may combine two or more of these types.

Classification in College

Undergraduate students who have completed 0-29 units of work are classified as freshmen, 30-59 units as sophomores, 60-89 units as juniors, and 90 or more as seniors.

Study List Limits

A student is normally permitted to enroll in a maximum of 16 units each semester. However, upon written approval of his adviser, the student may carry additional units. The foregoing limits apply to students who are attending college on a full-time basis. Students with outside responsibilities are strongly advised to reduce their study load.

Grading System

Satisfactory Grade C	Grade Point Value
A	4
Cr	None assigned
Unsatisfactory Grade	Withington Tripping as
F OF THE SHOP STOCKS AND RESIDENCE OF THE MAY HOUSE OF	o be sensoes
Special Grade	
E (Incomplete)	0
AU (Auditor) (no credit toward degree or credential)	None assigned None assigned

With the exception of the grades of E, AU, W, and CR, all units attempted are computed in the student's grade point average.

Incomplete Work

A grade of E may be given only when, in the opinion of the instructor, a student cannot complete a course during the semester of enrollment for reasons beyond bis control. Such reasons are assumed to include illness of the student, of members of his immediate family, extraordinary financial problems, loss of outside position, and other such exigencies. A student may remove a grade of E (incomplete work) by satisfactory completion of course requirements with the instructor and the grade will be changed on the student's permanent record card to that designated by the instructor. If the grade of E is not removed within one semester, unless this period is extended by proper College authority, the grade of E will be considered a permanent grade of F.

Repetition of Courses

When a course is repeated, the units and grade points of the repetition are included in the grade point average in addition to the units and grade points of the original course. When a course is repeated, where the original grade was passing, the repetition will carry no subject or unit credit toward a degree or credential. Grade point deficiencies incurred by courses completed at the College may not be made up by courses taken at other colleges.

Examinations

Final examinations are required in all courses and are given at times scheduled by the College. Any exception to this schedule must be approved by the office of the Dean of Instruction. No make-up final examination will be given except for reason of illness or other emergencies verified by an authorized College office and by written permission of the instructor and division chairman.

Student Writing

Students will be required to demonstrate, in all classes where written expression is appropriate, their ability to write clearly and correctly about the materials of the course. Ability of a student to demonstrate writing proficiency shall be used as a part of the final grade determination in any course.

Student Conduct

The College properly assumes that all students are in attendance for the purpose of securing a sound education and that they will conduct themselves as mature citizens of the campus community. Compliance with not only the common law but with all regulations of the College is therefore expected. If, however, on any occasion a student or an organization is known to have compromised accepted standards of conduct and good taste, appropriate disciplinary action must be taken by authorities of the College. Conduct which is prejudicial to the good name of the institution by any student or student group will not under any circumstances be tolerated or overlooked. Every effort will be made to encourage and support the development of self-discipline and control by students and student organizations. The Dean of Students, aided by all members of the faculty and advised by the Student Affairs Committee of the faculty, is responsible to the President of the College for the behavior of students in their relationships to the College. The President in turn is responsible to the Chancellor and the Trustees of the California State Colleges who themselves are governed by specific laws of the State of California.

Honors-at-Entrance

Honors-at-Entrance are awarded to both freshman and transfer students who have demonstrated outstanding achievement in past academic work. For freshmen,

it is given when the student has earned at least ten semester grades of A and ten semester grades of B in college preparatory courses which were taken in high school between entrance into the tenth grade and the time of admission to the college. Transfer students are eligible if a grade point average of 3.5 is earned in courses accepted by the college as degree credit. Unless the transfer student presents at least 60 college transfer units, he must also meet the freshman criterion. A Certificate of Honors-at-Entrance is awarded and a notation of such an award is made on the student's permanent record card.

Honors At Graduation

Honors at graduation have been defined by the Faculty Council in three classifications:

With	Honors	GPA	3.5
With	High Honors	GPA	3.85
With	Highest Honors	GPA	4.0

Dean's List

Academic achievement is recognized with the publication each semester of a list of students whose grade point average for the previous term has been 3.5 or better. Students are notified in writing by the Dean of Students when they have earned this distinction. Eligibility is based on a minimum of 12 units of course work.

Academic Probation

It is the purpose of academic probation to identify and to bring to the attention of appropriate authorities the student who is experiencing academic difficulties. Therefore, students whose records fall into any one of the following categories are placed on academic probation:

(1) Where the cumulative grade point average on all work attempted at all institutions attended is below a C (2.0).

(2) Where the cumulative grade point average on all work attempted at the College falls below a C (2.0).

Academic Dismissal

It is the purpose of academic dismissal to give the student an opportunity to review carefully his educational experiences away from the college environment. This "break" will normally be imposed before the student's record has reached the point where it will preclude a continuation of his educational program at a later date. Therefore, students whose records fall into the following categories will be subject to dismissal:

(1) Where the record shows below a C (2.0) average in a regular semester or summer session when the student is already on academic probation. (This category does not apply to students admitted on probation.)

(2) Where after two semesters on probation a student has not attained a grade point average of C (2.0) on all work attempted at the College and on all work attempted at all collegiate institutions attended.

(3) Where the academic record of the student indicates serious academic difficulty.

Removal of Probation

A student will be automatically removed from academic probation when all the following conditions are met:

(1) The student's cumulative grade point average on all work attempted at State College is a C (2.0) or above.

(2) The student's cumulative grade point average on all work attempted at all collegiate institutions attended is a C (2.0) or above.

Good Standing

"Good standing" indicates that a student is eligible to continue or to return, and is free from financial obligation to the College and from disciplinary action. A student under academic or disciplinary dismissal is not eligible to receive a statement of "good standing" on transcripts issued by the College.

RIGHT OF PETITION

Students have the right to petition any academic action taken by the College in accordance with established regulations. When a problem arises where this petition right should be exercised, the student should be referred to the Office of Admissions and Records. He will be permitted to file a petition on a form designated for this purpose. All petitions must first be reviewed by the student's adviser and initialed by him. The Petitions Committee will then take action on the petition and the student will be notified of this decision. A copy of the action will also be placed in the student's folder in the Office of the Registrar.

Students also have the right to appeal any disciplinary action taken by appropriate College authority. This may be done by requesting a hearing before a Special Review Committee appointed by the Chairman of the Faculty Committee on Student Affairs. Such requests should be filed in the Office of the Dean of Students

who will schedule a hearing at the earliest possible time.

GENERAL REQUIREMENTS FOR THE BACHELOR'S DEGREE

A candidate for graduation should file an application for a Graduation Requirement Check in the Office of the Registrar by the end of the fifth week of the semester prior to the semester in which he expects to graduate. No graduation requirement check should be requested unless and until the senior has completed 100 semester hours (including the current work in progress). If the candidate does not complete the requirements in the semester indicated, he must request a second graduation check indicating the new date. A student is eligible for graduation if he is in good standing and fulfills the following requirements:

(1) General Education

General Education Program for Students Entering with Freshman Status

(For the philosophy and objectives of the College, including the required General Education program, see pp. 20, 40 in the introductory pages.)

To be eligible for the bachelor's degree at the College, the candidate shall have completed 50 semester units of general education including at least 6 units in upper division courses. It is strongly recommended that English 101 and 102 be completed during the freshman year. The courses in general education shall be distributed in the following manner:

Minimum Units 12

(a) Social Sciences

Courses in the Social Sciences shall include the following:

1. History 170A (3) or History 170B (3)—meets the state requirement in U.S. History.

Political Science 100 (3) or a combination of Political Science 101
 (3) and Political Science 311 (3)—meets the state requirements in U.S. Constitution and California State and Local Government.

3. A minimum of 6 additional units required with at least one course from each of the following two groups: a. Anthropology 201B (3), Geography 121 (3), Sociology 201 (3) b. Anthropology 201B (3) and Anthropology 301 (3), Geography 121 (3), Geography 131 (3), Geography 333 (3), History 10A	
(3), History 110B (3), History 170A (3), History 170B (3), Political Science 101 (3), Political Science 331 (3), Political Science 340 (3), Political Science 351 (3), Sociology 201 (3), or Sociology 202 (3).	
(b) Natural Sciences	
(4,4), Physics 221A (5). (c) Humanities	
2. A minimum of 6 additional units required, consisting of three units each from the two groupings below. a. Philosophy 110 (3), Philosophy 210 (3), Philosophy 310 (3), Philosophy 311 (3), Philosophy 451 (3) b. English 202 (3), English 212 (3), English 321 (3), English 334 (3), English 423 (3), English 451 (3), English 463 (3), Comp. Lit. 315 (3), Comp. Lit. 425 (3), or any upper division course in French, German or Spanish.	
(d) Fine and Applied Arts	
(e) Psychology Psychology 101 (3)	
(f) Economics or Mathematics 3 A minimum of 3 units from the following: Economics 200 (5), Economics 201 (3), Economics 200A (3), Economics 200B (3), Mathematics 120 (3), Mathematics 150A (4), Mathematics Educ. 100A (3), Mathematics 250A (3), or any upper division mathematics course. (g) Health and Physical Education A minimum of 2 units required by completing four semesters of activity courses which include instruction in health education. A physical education activity course taken in the summer session may not be counted in	

lieu of a semester. Not more than one activity course within any one semester may be counted toward general education. Credit in intercollegiate athletics courses may meet not more than two semesters of the College general education requirement in physical education. Not more than six units of credit in physical education activities courses, including intercollegiate athletics, may be applied toward credit for graduation. (Persons who are over 25 years of age are not required to enroll for courses in physical education.)

	Mar	1
Total	_ 5	0
(The above requirements apply to all students who began college-leve	I	

General Education Program for Transfer Students

work in any institution in the Fall semester, 1963.)

(For students transferring to the College after completion of 30 or more college transfer units.)

To be eligible for the bachelor's degree from the College, the candidate shall have completed a minimum of 50 semester units of general education including at least 6 units in upper division courses. This program, while providing for the same breadth as required for students entering as freshmen, allows for the necessary flexibility for the transfer student. The courses in general education shall be distributed in the following manner:

- (b) Natural Sciences _______ The natural sciences shall include at least one course selected from the physical sciences and at least one from the biological sciences. The physical sciences include astronomy, chemistry, geology and physics. The biological sciences include botany, physiology and zoology.
- (d) Fine and Applied Arts

 The fine and applied arts shall include a course in oral communication.

 Additional courses shall be chosen from the following subject areas: art, drama and music.
- (f) Economics or Mathematics

 Either a course in college mathematics which would have as its prerequisite a minimum of two years of high school mathematics or its
 equivalent, or a college-level introductory course in economics will meet
 this requirement.

(g) Health and Physical Education

In addition to physical education activity, instruction in health education is required.

Total 50

(The above requirements apply to all students who began college-level work in any institution in the Fall semester, 1963.)

(2) Units

(a) Total Units

A minimum of 124 semester units is required for graduation with a Bachelor of Arts degree.

(b) Upper Division Units

Completion of a minimum of 40 units of upper division credit is required.

(c) Resident Units

Completion of a minimum of 24 semester units in residence is required. At least one-half of these units must be completed among the last 20 semester units counted toward the degree. Extension credit, or credit by examination, may not be used to fulfill the minimum residence requirement.

(3) Scholarship

(a) A grade point average of 2.0 or better is required on all units attempted, including those accepted by transfer from another institution.

(b) A grade point average of 2.0 or better is required on all units in the major.

(c) A grade point average of 2.0 or better is required on all units attempted at the college granting the degree.

(4) Major

Completion of all requirements for a major as specified by appropriate college authority is required.

(5) Minor

Completion of a minor field is not required for the B.A. at this time.

(6) Approval and Recommendation of the Faculty of the College

THE PROGRAM OF GRADUATE DEGREES

California State College at Fullerton has been authorized to grant the following graduate degrees:

Master of Arts in Art

Master of Arts in Biology

Master of Arts in English

Master of Arts in History

Master of Arts in Political Science

Master of Arts in Social Sciences

Master of Business Administration

Master of Science in Education

(Concentrations in School Administration and School Counseling only)

Master's degrees in other areas are under consideration, in accordance with an Academic Master Plan for California State College at Fullerton, as approved by the Board of Trustees of the California State Colleges. Public announcement will be made of such added degrees as they are approved.

Procedures in Graduate Study

Graduate students who intend to earn a master's degree must follow the procedures as stated below. It is the responsibility of the student to ascertain and to comply with all requirements, College-wide and departmental or divisional, of the graduate program of the College.

1. Admission to Unclassified Graduate Status

a. For admission with graduate standing as an Unclassified Graduate student, a student shall have completed a four-year course and hold an acceptable baccalaureate degree from an accredited institution; or shall have completed an equivalent academic preparation as determined by the College.

b. Graduate students admitted in Unclassified Graduate Status, with a master's degree objective, must comply with the requirements for full matriculation. (See "Procedures for Admission—Graduate Students," page 34, and "Special Responsibilities of Students on Master's Degree Programs," beginning

on page 50.)

c. Admission to the College in Unclassified Graduate Status does not constitute admission to graduate degree curricula. (See No. 2, "Admission to Graduate Degree Curricula: Classified Graduate Status," below.)

d. Admission to the College Summer Session does not constitute admission to

the College or to Unclassified Graduate Status.

2. Admission to Graduate Degree Curricula: Classified Graduate Status

a. A student who has been admitted in Unclassified Graduate Status may, upon application, be admitted to an authorized master's degree curriculum of the College in Classified Graduate Status, upon completion of the requirements as specifed by the College and in the particular master's degree program.

b. Only those applicants who show promise of success and fitness will be admitted to graduate degree curricula, and only those who continue to demonstrate a satisfactory level of scholastic competence and fitness shall

be eligible to continue in master's degree programs.

c. In addition to scholastic competence, applicants will be required to meet professional and personal standards, attain satisfactory scores on prescribed examinations, and other qualifications as the College may prescribe.

- d. For details concerning admission to graduate degree curricula in Classified Graduate Status, consult No. 3, "Completion of Master's Degree Requirements," below, "Special Responsibilities of Students on Master's Degree Programs," page 50, and descriptions of specific degree programs elsewhere in this Catalog.
- 3. Completion of Master's Degree Requirements (The following are the basic general requirements for all master's degrees. For information concerning specific degree requirements, see descriptions elsewhere in this Catalog.)
 - a. Thirty semester units of approved graduate work completed within seven years of the date when all the requirements of the degree are completed, except that the College, at its option, may extend the time for students who pass a comprehensive examination in the relevant course or subject field. Of the Study Plan 30 semester units:

(1) Not less than 24 shall be completed in residence.

(2) Not less than 12 shall be in courses organized primarily for graduate students.

(3) Not more than 6 shall be in extension or transfer credit.

(4) Not more than 6 shall be allowed for a thesis, but the requirement of a thesis is optional with the College.

(5) Not less than 15 shall be completed after advancement to Classified Graduate Status. (An exception may be authorized for students well advanced when new programs are initiated.)

b. A grade point average of 3.0 (grade of B on a five-point scale) or better in all courses taken to satisfy the requirements for the degree.

c. Satisfactory competence and fitness, scholastically, professionally and personally, and other qualifications as the College may prescribe, including specified examinations.

d. Completion of a satisfactory pattern of study in the department or division of the field of concentration, as approved by the student's graduate advisor

and committee.

- e. A satisfactory terminal evaluation, at the conclusion of the program, to demonstrate ability and to assure depth of scholarship and that elements of the program have been appropriately integrated. This terminal evaluation, depending on the master's degree pursued by the student, may be by means of a thesis, a project, and/or a comprehensive examination. Adequate adaptations may be made for creative endeavors, providing that a creative thesis or project must include an appropriate written exposition or analysis thereof.
- f. Recommendation of the faculty of the College that the appropriate degree shall be granted.

Within these general requirements for all CSCF master's degrees there are other, specific, detailed requirements of a quantitative and qualitative nature for each specific degree, both as concerns prerequisites and program. These will be found in the descriptions of master's degree programs, in each of the Divisions offering such degrees, later in this Catalog.

Special Responsibilities of Students on Master's Degree Programs

In addition to the academic and other requirements for the master's degree, each student must take responsibility for initiating action at several points. Failure to initiate these actions will place his program in jeopardy. These specific student responsibilities are as follows:

- 1. Apply for admission to the College in Unclassified Graduate Status, at the Office of Admissions and Records, prior to the admissions application deadline indicated in the College calendar. (Students unable to meet the admissions deadline may be permitted to file application materials and register at a date to be specified by the College, on a provisional matriculation basis. Full matriculation must be achieved within 90 days after registration. Concerning full matriculation see "Procedures for Admission—Graduate Students," page 34.)
- 2. State the specific master's degree objective (with concentration, if applicable) on the Application for Admission. The student who has previously pursued graduate studies at CSCF, and who has not indicated a master's degree objective, or who changes objective, must file a Change of Objective card in the Office of Admissions and Records. The master's degree objective should be stated, as above, even though the graduate student is presently working only on degree prerequisites. It is urgent that graduate students declare their degree objective as early as possible. Students may have single or dual objectives (such as credential and master's degree).
- Provide evidence of an acceptable baccalaureate degree, from an accredited institution (diploma, transcript, etc.).
- Arrange to have two copies of transcripts of all previous undergraduate or graduate studies undertaken sent to the Office of Admissions and Records

directly from the colleges or universities where these studies have been pursued. (The second copy, in each case, will be sent to the division advisor of the student.) For previous studies taken at CSCF, the student will file a request in the Office of Admissions and Records for one copy of the CSCF transcript to be duplicated and forwarded to the division advisor.

5. Obtain health clearance from the Health Center, including:

a. Submission of Health History form (completed by the student) and the Physical Examination form (completed by a private physician) to the Health Center. (See p. 29 for applicability.)

b. Submission to the Health Center of evidence of a negative chest X-ray (or a negative tuberculin skin test), signed by a physician, nurse, or public health department official, and dated not more than twelve months prior to the date of registration at CSCF.

c. Submission to the Health Center of evidence of a smallpox vaccination

within the past five years.

- 6. Comply with all requirements for full matriculation, as announced by the College. (See admission information, beginning on page 31 of this Catalog; also Class Schedule and instructions furnished by the Office of Admissions and Records.) Graduate students who cannot meet all requirements for full matriculation prior to the registration deadline, due to delay of arrival of transcripts or other factors, may be permitted to file application materials and register at a date to be specified by the College, on a provisional matriculation basis. Students admitted on this basis must, however, show proof of an acceptable bachelor's degree from an accredited institution. Full matriculation must be achieved within 90 days after registration. Students who fail to complete full matriculation requirements within 90 days after registration will be designated as without a degree objective. Such students receive no regular advisement and place their master's degree programs and credit for course work taken (as applicable to a master's degree) in jeopardy.
- 7. Consult with an advisor in the area of the desired master's degree program, at registration time or before, concerning prerequisites, courses to be taken, and to develop an informal program and Study Plan. (Students are urged to maintain a personal file of transcripts and other records of all undergraduate and graduate work undertaken, and to make this file available whenever seeking advisement.)

8. Complete prerequisites as specified in the informal program.

9. Take the standardized tests required in the area of the master's degree objective (normally during the first semester of study), on dates as announced by the Test Center of the College. These must be applied for at designated dates, well in advance of the testing dates, on registration forms supplied by the department of the master's degree or the Test Center, and fees must accompany the form. If the specific tests required in the student's master's degree program have been taken elsewhere, consult with the Test Center well in advance for transfer of results to the Center, and arrange with the Center for subsequent transfer of test results to the department concerned.

10. If a full-time student, four weeks before the end of the first semester of study (or, if a part-time student, upon completion of from eight to twelve units of course work on the informal Study Plan), complete a request for Classified Graduate Status at the Office of Admissions and Records. Only students who

achieve this status are candidates for the degree.

- 11. A week thereafter make an appointment with the advisor to complete the formal Study Plan for the master's degree, determine thesis or project title (if required), and determine if all requirements for Classified Graduate Status have been met.
- 12. File an Application for Graduation Check in the Office of Admissions and Records according to the dates indicated in the College Calendar.
- 13. Five weeks prior to the end of the semester or summer session when the program is completed, arrange an appointment with the advisor, to assure that all requirements will be met.
- 14. Consult with the Registrar relative to the awarding of the degree.

Advisement and Approvals

Basic responsibility for advisement of master's degree students is with departmental advisors, and it is essential that students periodically consult with advisors. In addition, major approvals regarding a student's acceptance for, advancement to, and completion of a master's degree program are made by divisional or departmental graduate study committees, on recommendation of advisors.

Prerequisites

Each master's degree program has specific prerequisites, both in courses and in grade point average. Deficiencies in prerequisites must be removed prior to advancement to Classified Graduate Status, and courses for this purpose may not be a part of the 30-unit Study Plan for the degree. Students otherwise well qualified for Classified Graduate Status, who have minor prerequisite deficiencies, in either grade point average or courses, may, with the approval of the advisor, petition to the divisional or departmental graduate study committee for waiver of such minor deficiencies.

Declassification

Graduate students in Classified Graduate Status shall be declassified for failure to maintain the required grade point average of the master's degree program, for other unsatisfactory performance in respect to scholastic or professional standards, or for failure actively to continue in the program during a twelve-month period. Such students shall revert to Unclassified Graduate Status. Students whose performance is found to be seriously below the quality required of graduate students may be required to withdraw from all graduate courses.

Readmission to the College

Graduate students who fail to register at CSCF during any semester must apply for readmission to the College prior to the dates for admission as indicated in the College Calendar.

Master's Degree Theses and Projects

When a thesis is required in a master's degree program, the approved original copy, bound in accordance with College specifications, must be filed with the College Library. Arrangements may be made at the College Foundation Office for binding, with a binding fee of \$5.50 per copy payable at that Office. This must be done before the degree can be awarded.

When a project is required in a master's degree program, it will be filed with

the department or division in which the degree is taken.

Appropriate adaptations will be made for creative theses or projects.

All theses and projects will conform in style and format to accepted standards as specified by the advisor and the Coordinator of Graduate Studies.

Graduate Assistants

There are a limited number of appointments as graduate assistants available to outstanding graduate students who are working on graduate degree programs. These may pay up to \$1100 per semester. If interested, consult with the Chairman of the Division in which degree study is being taken.

Waiver of Tuition for Non-Resident Graduate Students

Worthy graduate students who are not residents of California may, under certain circumstances, obtain a waiver of the non-resident tuition fee. Inquiries should be directed to the Coordinator of Graduate Studies.

Minimum Full-time Load for Graduate Students

Twelve (12) hours of course work per semester shall constitute a minimum full-time load for graduate students.

International Study

The College participates in the California State Colleges' program of study abroad. Under this program, limited studies taken at designated foreign universities, when arranged in advance, may be applied toward the requirements of a degree awarded by the College. It is important that plans be completed several months in advance of starting such a program. For details consult the Coordinator of Graduate Studies or the Foreign Student Advisor.

Late Afternoon and Evening Graduate Course Work

The educational program of the College is offered continuously from 8:00 a.m. until 10:00 p. m., Monday through Friday. In many of the master's degree areas it is possible for matriculated graduate students to complete course work between the hours of 4:00 p. m. and 10:00 p. m.

For further information regarding the program of master's degrees of California State College at Fullerton, please refer to the Office of the Coordinator of Graduate Studies.

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There are a limited upmber of appointments as graduate assistants aveilable to utstanding graduate students who are working on graduate degree programs, here may pay up to \$1400 per semester. If interested, consult with the Chairman

the Division in which degree study is being taken,

Worthy graduate students who are not residents of California may under certain countries, obtain a waiver of the non-resident carrier fee, Inquiries should be recred to the Constitutor of Graduate Studies.

Minimum Full-time Load for Graduate Student

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Readmission to the Coslege

Graduate students who fall to register at CNCF during any support mile stop that readmission so the College prime to the dates for sumission as indicated in a College Calendar.

Master's Cagree Theses and Projects

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All theses and projects will conform in style and formus to accepted standar as specified by the advisor and the Courdinator of Graduate attains.

COLLEGE CURRICULA

COLLEGE

COLLEGE CURRICULA

California State College at Fullerton has been authorized to offer the following degree programs which are described on the pages listed:

Bucc		Page			Page
B.A.	Anthropology	112	B.A.	History	115
	Art		B.A.	Humanities	93
B.A.	Biological Science	102	B.A.	Mathematics	105
B.A.	Business Administration	60	B.A.	Music	87
	Chemistry		B.A.	Philosophy	99
B.A.	Communications	94	B.A.	Physics	108
B.A.	Drama	83	B.A.	Political Science	116
B.A.	Economics	64		Psychology	
B.A.	English	96	B.A.	Sociology	120
	French		B.A.	Spanish	98
	Geography			Speech	
	German				

The following master's degree programs have also been authorized:

M.A.	Art was not a real man A seems		M.A.	English
M.A.	Biology		M.A.	History
M.B.A	Business Administration		M.A.	Political Science
M.S.	Education (with emphasis	in	M.A.	Social Sciences

School Administration or School Counseling)

Courses of study are organized into six instructional divisions/schools of the College: Business Administration and Economics, Education, Fine and Applied Arts, Humanities, Science, Mathematics, and Engineering and Social Sciences. These courses are listed below by subject-matter field and instructional divisions:

and education, faithough Qu	Manufacture of the Control of the Co
Courses	Divisions/Schools
Accounting	Business Administration and Economics
Anthropology	Social Sciences
Art	Fine and Applied Arts
Art Education	Fine and Applied Arts, Education
Biological Science	Science, Mathematics, and Engineering
Business Education	Business Administration and Economics, Education
Chemistry	Science, Mathematics, and Engineering
Communication	Humanities
Comparative Literature	Humanities Humanities
Drama	Fine and Applied Arts
Drama Education	Fine and Applied Arts, Education
Economics	Business Administration and Economics
Education-Elementary	Education
Education-Foundations	Education
Education-School Services -	Education
Education-Secondary	Education
English	Humanities

Divisions/Schools
Humanities, Education
Business Administration and Economics
Humanities, Education
Humanities
Social Sciences
Social Sciences Science, Mathematics, and Engineering
us asad and appealled as abelled as Humanities
Education
Social Sciences
Humanities, Education
Business Administration and Economics
Business Administration and Economics
Science, Mathematics, and Engineering Science, Mathematics, and Engineering; Education
Science, Mathematics, and Engineering; Education
Fine and Applied Arts
Fine and Applied Arts Fine and Applied Arts, Education
Humanities
Humanities Education
Science, Mathematics, and Engineering
Science, Mathematics, and Engineering
Science, Mathematics, and Engineering Social Science
Humanities
Social Science
Business Administration and Economic
Education
Humanities Humanities
Science, Mathematics, and Engineering; Education
Education
Social Science
Social Science
Humanitie
Fine and Applied Art
Fine and Applied Arts, Education

PREPROFESSIONAL STUDIES

Studies which may qualify students for admission to professional schools is architecture, dentistry, law, medicine, social welfare and theology are available. Interested students are advised to consult the Office of Counseling concerning professional objectives.

SCHOOL OF BUSINESS ADMINISTRATION AND ECONOMICS

1964-65 Staff

Dean of the School: Theodore H. Smith
Department of Accounting and Finance
Professors: Li, Wiseman (Chairman)
Associate Professor: Kinney

Assistant Professor: Woo

Department of Economics

Professor: Townshend-Zellner (Chairman)

Associate Professor: Graves

Assistant Professors: Fitzpatrick, Lafky, Pontney, Schick

Department of Management

Associate Professors: Barres (Chairman), Goodell, McCloud, Trego

Assistant Professors: Ellery, McKee, Shaul

Department of Marketing and Quantitative Methods
Professors: Roberts, Smith, Tull (Chairman)

Associate Professor: Hussain Assistant Professors: Beaton, Fyfe

THE UNDERGRADUATE PROGRAM IN BUSINESS ADMINISTRATION AND ECONOMICS

Through a study of the various theoretical and practical business policies and procedures, the School of Business Administration and Economics seeks to afford a basic education for managerial and professional positions in business, government, and education. Although emphasis is given to theory, factual content which is essential in specific vocations such as accounting, economics, finance, marketing, management, and business education is provided to enable students to enter apprenticeships in these fields with the expectation that their education should expedite their progress, either to managerial positions or to staff positions as professional accountants,

economists, educators, and marketing and business consultants.

In our ever-expanding, complex society, the managers of tomorrow must be men and women with breadth of understanding and vision. Students who concentrate in a special area are encouraged to elect courses in other divisions of the college, particularly in the areas of the behavioral, social, and political sciences, and foreign languages. It is assumed that the first half of their college work toward a bachelor's degree represents a required basic education in communication, mathematics, a laboratory science, social science, and the humanities. With the broadening of our cultural and business horizons, it is desirable to become increasingly better versed in the language of our neighbors, Spanish, and in such languages as French, German, and Russian. Since the understanding of mathematics is becoming increasingly important in business and the social sciences, students who contemplate enrollment in either business administration or economics are encouraged to take four years of high school mathematics. College algebra, or three years of high school mathematics

including a second course in algebra, will be a minimum prerequisite for entrance

to the program.

If credits for either or both elementary accounting and principles of economics have not been earned, it will be necessary to enroll in these courses the first semester of the junior year.

Students enrolled in the school and working toward a college degree are subject to the general requirements of the College as to courses and credit hours required

for graduation.

BACHELOR OF ARTS DEGREE IN BUSINESS ADMINISTRATION

The degree requirements are as follows:

- Completion of a minimum of 50 semester credit hours in business administration and economics courses in the School of Business Administration and Economics, of which 35 semester credit hours must be upper division courses.
- Completion of at least 15 semester credit hours in the School of Business Administration and Economics at the College.
- 3. Completion of the required core courses in the School of Business Administration and Economics. Students in Business Administration are required to take Mathematics 120 (Finite Mathematics) or equivalent as prerequisite to Quantitative Methods 361.
- Completion of 12 semester credit hours of required courses in an area of concentration to be selected by the student.
- Completion of at least 62 semester credit hours in areas other than Business Administration and Economics.
- 6. Students must attain at least a 2.0 grade point average (C average) in all college work attempted, in all courses taken in the School of Business Administration and Economics, and in his area of concentration.

CORE: The business administration and economics courses listed below are required of all students majoring in business administration:

Course	Units
Economics 100 American Economic History	3
Economics 200 or 200A-B Principles of Economics	5-6
Quantitative Methods 264 Computer Programming	1
Accounting 101A-B, or 200 Elementary Accounting	6-5
Finance 330 Business Finance	
Management 341 Principles of Management	3
Management 346 Business Law	3
Management 449 Business Policies *	3
Marketing 351 Principles of Marketing	3
Quantitative Methods 361 Business and Economic Statistics	3

* Those students taking Business Economics as their area of concentration will take Econ. 401—Government and Business—in lieu of Mgmt. 449—Business Policies.

AREAS OF CONCENTRATION FOR MAJORS IN BUSINESS ADMINISTRATION

A student in business administration should select an area of concentration by the second semester of the junior year and take the required courses in the area.

Accounting			her business administration or economic	Units
301A-301B	Intermediate	Accounting	school mathematics. College algebra, or	6
302 Cost A	ccounting			3

And a	it least one of the following courses:	
303	Governmental Accounting	3
308	Federal Income Tax	. 3
401	Advanced Accounting	
402	Auditing	. 3
Econor		
302	Intermediate Economic Analysis	. 3
303	Intermediate Economic Analysis	. 3
402	Monetary and Fiscal Policy	. 3
	Management 446 Managerial Economics	. 3
Financ	Management 446 Managerial Economics	
324	Money and Banking	. 3
331	Financial Analysis	. 3
And a	t least two of the following courses.	
337	Real Estate Finance	3
431	Capital and Money Markets	3
432	Investment Principles and Practices	3
433	Problems in Business Finance	
	To accuse the course work and an appropriate annious.	Y
		2
342 343	Production Management Personnel Management and Human Relations	- 2
444	Management of Systems	
446	Managerial Economics	
		-)
Marke	eting eteromoruma@noise	
353	Marketing Administration Shame SuperSuperSuperSuperSuperSuperSuperSuper	_ 3
452	Marketing Research	_ 3
459	Marketing Problems	- 3
A mir	Marketing Problems nimum of one of the following courses: Distribution Costs	
307	Distribution Costs	_ 3
354	Principles of Advertising	_ 3
355	Credit and Credit Administration	- 3
356	Creative Motivation in Marketing	_ 3
358	Physical Distribution	_ 3
Quant	Internation	
362	Introduction to Econometrics	3
461	Advanced Statistics	
462	Mathematical Models in Business and Economics	
100	wistongood alege 2008	,
	st one of the following two courses: Computer Logic and Programming	1
364	Computer Logic and Programming	- 3
463	Statistical Decision Theory	_ 3

BUSINESS EDUCATION

Students who wish to major in Business Administration in preparation for a career as a secondary school teacher in business subjects must meet the requirements of the School of Business Administration and Economics and the secondary school teacher education program including the requirements for the proper credential as outlined in the catalog.

The requirements for a major in this area are as follows:

 The core requirements as set forth for all Business Administration Majors, Page 60.

- 2. Twelve hours of advanced work in one of the six areas of concentration:
 - a. Accounting
 - b. Economics
 - c. Finance
 - d. Management
 - e. Marketing
 - f. Quantitative Methods
- Completion of 5-7 credit hours of electives which may include secretarial studies * to meet the School of Business minimum requirement of 50 credit hours in business administration and economics courses.
- 4. A maximum of 12 credit hours in the secretarial field, including those applied as electives, may count toward the degree in Business Administration and Economics.*
- Completion of at least 62 credit hours in areas other than Business Administration and Economics are required for the degree.

Education courses required for a credential will be detailed by the Division of Education.

MASTER OF BUSINESS ADMINISTRATION DEGREE

Applicants and continuing students should read carefully the College requirements for master's degree programs, page 48.

The procedural steps for admission to and the completion of the Master of Business Administration Degree are as follows:

Admission Requirements

Apply for admission to the College in Unclassified Graduate Status and declare as objective a Master of Business Administration. Proof of a degree from an accredited college or university must be supplied. This must be done at the Office of Admissions prior to the dates indicated in the College Calendar.

Prerequisites

Admission to the program requires the completion of the following prerequisites or equivalent with a grade point average of not less than 2.5.

Mathematics	120	Finite Mathematics, or	othens
Mathematics	250A	Calculus	3
Ouantitative Methods		Computer Programming	1
Accounting	300	Accounting Fundamentals	3
Economics	300	Basic Economics	3
Finance	330	Business Finance	3
Management	341	Principles of Management	3
Management		Business Law	3
Marketing		Principles of Marketing	
Quantitative Methods	361	Business and Economic Statistics	3
		Total	25

Take the Admission Test for Graduate Study in Business during the first semester of residence or at the earliest possible date. This test is given each year on a specified Saturday in November, February, April and July, and is administered at the College.

^{*} The College does not offer work in secretarial training, typewriting, or business machines. Consult the Dean of the School of Business Administration and Economics to arrange for transfer of approved courses to satisfy these requirements.

Advancement to Classified Graduate Status

Achievement of this status requires the following:

- 1. Completion of all prerequisites;
- Making a satisfactory score in the Admission Test for Graduate Study in Business;
- 3. Have prepared and have approved a program in consultation with an advisor;
- 4. Apply to the Registrar for Classified Graduate Status upon completion of 8 to 12 units of graduate work;
- Receive approval by the Business Administration and Economics faculty and the Coordinator of Graduate Studies.

The Program for the M.B.A. Degree Is Outlined As Follows:

Completion of 30 credit hours in courses approved for Graduate work of which not less than 15 credit hours must be in the 500 course level with an over-all point average of not less than 3.0.

This can be achieved in three ways:

a. 30 credit hours of course work;

Accounting

- b. 27 credit hours of course work and an approved project;
- c. 24 credit hours of course work and an approved thesis.
- 1. Course work required of all candidates for the degree (24 units)

CURRICULUM

405 Industrial Accounting	3
501 Administrative Accounting	3
Recommended Electives 406 Cost Control	3
407 Integrated Data Processing Systems	_ 3
Other Electives Other 400 level accounting courses	
conomics	
Required secured secured with the land to both	
403 Comparative Economic Systems	_ 3
510 Competition, Monopoly, and Public Policy	3
511 Economic Problems and Public Policy	3
Other Electives Other 400 level economics courses	
agol of Equiness Administration and Economics, Students of Inemeganan	
Required	
544 Organizational Behavior, Theory, and Administration	3
Recommended Electives	
442 Labor Law 445 Production Control Analysis	3
445 Production Control Analysis	3
446 Managerial Economics	3
	Busin
Other Electives Other 400 level management courses	

Units

Marketing	
Required	Unit
459 Marketing Problems	3
Recommended Electives	
452 Marketing Research	3
552 Seminar in Product Planning and Price Policy	3
553 Marketing to the Government	3
Other Electives	
Other 400 level Marketing courses	
Finance of Education of the nother minimal Accounted actived by original actived by or	
Required	gap box
532 Corporate Financial Management	_ 3
Recommended Electives	
431 Capital and Money Markets	3
432 Investment Principles and Practices	3
Quantitative Methods	
Required	
560 Operations Research, or	
463 Statistical Decision Theory	3
TOTAL PROPERTY OF ANY OFFICE AND	,
Recommended Electives	IN THE
461 Advanced Statistics	3
462 Mathematical Models in Business and Economics	- 3
2. Satisfactorily pass a comprehensive examination.	

BACHELOR OF ARTS DEGREE IN ECONOMICS

3. Receive the endorsement of the School Faculty and the College Coordinator of

See also Procedures in Graduate Study, beginning on page 49.

The economics major is designed to prepare students for positions in business education, and government, and for graduate work in economics and related disciplines.

Required of all students for the degree:

Graduate work.

- Completion of 37 semester credit hours of courses in business administration and economics in the School of Business Administration and Economics, of which 24 semester credit hours must be in upper division courses.
- Completion of at least 15 semester hours in the School of Business Administration and Economics at the College.
- Completion of the Major course requirements for Economics majors, in the School of Business Administration and Economics. Students in Economics are required to take Mathematics 120 (Finite Mathematics) or equivalent as prerequisite to Quantitative Methods 361.
- Completion of at least 62 semester credit hours in areas other than Business Administration and Economics.
- Students must attain at least 2.0 grade point average (C average) in all college work attempted, in all courses in the School of Business Administration and Economics.

Business Administration and Economics courses required of all students majoring in economics are listed below:

Business Administration

wer Division	
Course	Units
Economics 100 American Economic History	3
Economics 200 or 200A-B Principles of Economics	5-6
Accounting 101A-B or 200 Elementary Accounting	6-5
Total	13-15
per Division	
Course	Units
Economics 302 Intermediate Economic Analysis	3
Economics 303 Intermediate Economic Analysis	
Economics 324 Money and Banking	3
Economics 401 Government and Business	3
Economics 402 Monetary and Fiscal Policy	3
Quantitative Methods 361 Business and Economic Statistics	3
Six hours of electives in the School of Business Administration and	
Economics approved by the student's major adviser	6
ASSECTED PROTESTOR MICLERY, INC.	-
Total	24
MINOR IN ECONOMICS	
A minor in Economics may be achieved by taking the following courses	
conomics	Units
100 American Economic History	3
200 Principles of Economics	5
302 or 303 Intermediate Economic Analysis	
401 or 402 Government and Business or Monetary and Fiscal Policy	3
403 Comparative Economic Systems	
Elective	3

Total

	Economics Economics
ASAI Seriolcal Division Theory.	
Recommended Electrics 461 Advanced Statistics 20180H003 81 90HM	

DIVISION OF EDUCATION

1964-65 Staff

Division Chairman: Kenneth R. Doane

Department of Foundations of Education:

Professors: Bridgman (Acting Chairman), Carr, Doane, Ehmann * Imhoff

Associate Professors: Coppolino, Fierman

Department of Elementary Education: Professor: Hartsig (Chairman) Associate Professors: Croy, Kravitz

Assistant Professors: Donoghue, Golden, Holmes, Lance, Lemmon

Department of Secondary Education: Associate Professor: Cusick (Chairman) Assistant Professor: McGarry, Sica

Department of School Services:

Professors: Brockmann (Acting Chairman), Allen *, Denno *, McComb *

Associate Professors: Lynn *, Tollefson *

Assistant Professors: Bleecker, Burke *, Preble, A. Smith

Instructor: Bristow *

Department of Health Education, Physical Education, and Recreation:

Professor: E. Johnson (Chairman) Associate Professors: Omaley, Pastor Assistant Professors: Barrett, Kindel

The courses, programs, and services of the Division are directed toward the following objectives of students:

- 1. Master of Sciences in Education with concentration in School Administration or School Counseling
- 2. Pre-service teacher education (elementary school, secondary school, junior college)
- 3. In-service teacher education
- 4. Professional preparation of administrative and counseling personnel for the public schools
- 5. The portion of the general education requirements in physical education and health.

Instruction concentrates on the central principles of human behavior, human development, human learning, physical activity, the school as a basic institution of our culture, the methods and materials associated with effective teaching, school administration, school counseling, and the current and persistent problems that confront administrators, teachers, counselors and other professional workers in educational institutions. In addition to using published source materials and attendng class sessions for presentations and discussions, many of the Division's courses require field work in schools and other educational agencies.

College Administrative Officers.

MASTER OF SCIENCE IN EDUCATION

General Characteristics:

This degree is reserved for professionally qualified graduate students who desire to prepare for or advance their careers in either School Counseling or School Administration. Most students can meet credential requirements in either counseling or administration (including supervision) while completing the degree.

Prerequisites:

Only students who have a teaching credential, successful teaching experience, an approved academic major,* acceptable scores on The Graduate Record Examination (Area tests), 30 units of advisor-approved study past the baccalaureate degree, a 2.5 GPA on previous academic and related work, and who have been screened into the program on these and professional leadership criteria, may proceed to the last 30 units of study on the program. Credit will be given for previous post-baccalaureate studies when possible. While otherwise well-qualified students may be admitted with limited subject or grade deficiencies, these may often be removed in the first 30 units of post-baccalaureate study.

Program of Study:

Students concentrating in School Counseling will take Educ., Sch. Serv. 452 (Counseling Theories and Processes-prerequisite Educ., Sch. Serv. 351, Principles of Guidance), and in School Administration will take Educ. Found. 503 (Foundations for Educational Leadership), as soon as they identify their interest in this M. S. degree. Detailed evaluations and M. S. study plans will be developed for each student at this time.

The final advisor-approved 30 units (minimum) of study for the degree will include the course of the above paragraph, 5 units of degree "core" studies (in survey of educational research, and social, historical or philosophical aspects of education), 6 units of advisor approved supporting courses from other disciplines, and an added 16 units in the area of concentration. The latter will include a culminating project, designed to assure depth of scholarship and integration of elements of the program.

The sixteen additional units in the concentration in School Administration (referred to above) are as follows:

TOTAL TOTAL VINDE VINDE	stinU eservice reacher education (elementary school,
Educ., Found. 505	Foundations for Improving Instruction 4
Educ., Sch. Serv. 561	Organization of School Systems 3
Educ., Sch. Serv. 563 Educ., Sch. Serv. 567A.B	Principles of School Personnel Administration 2 Field Work and Seminar in School Administra-
tion was makelying mi	2,2
One of the following: Educ., Sch. Serv. 566	The Elementary School Principal and Supervisor 3
Educ., Sch. Serv. 586	The Secondary School Principal and Supervisor 3
The sixteen additional unit	its in the concentration in School Counseling (referred

Educ., Sch. Serv. 551
Educational and Career Orientation

Sch. Serv. 552
Educational and Career Orientation

3
Educ Sch. Serv. 552
Group Processes in Guidance

3

Educ., Sch. Serv. 552
Educ., Sch. Serv. 553
Administration and Organization of Pupil Personnel Services

3

^{*} May be waived for students holding or obtaining old counseling or administration credentials prior to September 14, 1966.

	Units
Educ., Sch. Serv. 557A,B Seminar in School Counseling	1,1
Educ., Sch. Serv. 559A,B Field Work in Pupil Personnel Services	2-3
Also see Procedures in Graduate Study, beginning on p. 49.	

TEACHER EDUCATION CURRICULA Leading to Credentials

The programs in teacher education operate under policies established by the Teacher Education Committee, a college-wide committee of faculty members. The Departments of Elementary and Secondary Education have administrative responsibility for the respective programs. Details of the programs are provided in special brochures available from the Division of Education or the Credentials Office, Room 154.

The College offers teacher education curricula leading to the Standard Teaching Credential with Specialization in Elementary School Teaching, with Specialization in Secondary School Teaching, and with Specialization in Junior College Teaching. All curricula provide for completing the requirements for graduation with the Bachelor of Arts degree at the end of the usual four collegiate years and an additional year of work to satisfy requirements for a teaching credential. The credential for teaching in a junior college includes the master's degree.

CURRICULUM IN ELEMENTARY SCHOOL TEACHER EDUCATION

The suggested program leading to the recommendation for the Standard Teaching Credential with Specialization in Elementary School Teaching includes the following:

- 1. A bachelor's degree from an approved institution.
- 2. A fifth year of college or university postgraduate education taken at the upper division or graduate level. (If the student does not complete all requirements, the credential may be awarded on the basis of partial fulfillment at the end of four or more years of work if he has a bachelor's degree from an approved institution, has an approved major, has completed the student teaching requirement, has an affidavit of a teaching position, and has the acceptance of a proposed program to complete all requirements within the first five years of teaching.)
- 3. Courses in General Education 50 units

 To satisfy credential requirements and to prepare himself to meet professional responsibilities, an elementary school teacher education candidate should meet the requirements of the College on page 31 and should include in his general education program Art 100, Music 101, P. E. 123, P. E. 142, and Speech 101 or Speech 231. To satisfy requirements for a credential, students must have a course in mathematics. Math. Ed. 100A meets this requirement.

Not more than six hours of course work taken to satisfy requirements in general education shall apply toward the fulfillment of the requirements for either a major or a minor.

(NOTE: Graduate students must present 45 units to meet a minimum general education requirement. These units must be in five of the following six areas: (1) Social Sciences, (2) Natural Sciences, (3) Humanities (excluding foreign languages), (4) Fine Arts, (5) Mathematics, and (6) Foreign Languages. The Humanities requirement must include a year of English, and, in addition, the applicant for the credential must demonstrate competence in composition either by passing a course in composition or by passing an examination given by the institution in lieu thereof.)

- 4. A major consisting of at least 24 semester hours of upper division or graduate level courses. Majors must be in subjects and areas normally taught in the public schools. These majors are currently available for this specialization at the College: anthropology, art, biological science, business administration, chemistry, communications with journalism emphasis, drama, economics, English, French, geography, German, history, humanities with comparative literature emphasis, mathematics, music, philosophy, physics, political science, psychology, sociology, Spanish, speech. (Note: the specifications above are state minima, and do not necessarily satisfy requirements for a major for graduation from the College.)
- 5. A minor consisting of 20 semester hours of work in a single subject. If the candidate's major is not in an academic area, the minor must consist of at least 20 semester hours in a single academic subject, and at least 12 semseter hours of upper division or graduate work must be included. Minors must be in subjects normally taught in public schools. These minors are currently available for this specialization at the College: anthropology, art, biological science, chemistry, communications with journalism emphasis, drama, economics, English, French, geography, German, history, humanities with comparative literature emphasis, mathematics, music, philosophy, physics, political science, sociology, Spanish, speech. (Note: a minor is not required for graduation from the College.)

Units 12

6. Courses in Allied Studies

These courses supplement the general education and academic specialization of the elementary school teacher. They are offered by the academic departments as a part of the basic preparation of the teacher.

Engl. 433. Children's Literature (3 units)

Art 380. Art and Child Development (3 units) Music 333. Music and Child Development (3 units)

P.E. 333. Physical Education and Human Development (3 units)

7. Professional education requirements which are currently met by the following program at the College.

Educ. Found. 311. Psychological Foundations of Education (4 units)

Educ. Elem. 331. Elementary School Principles, Curricula, and Methods

Educ. Elem. 339 or 739. Student Teaching in the Elementary School (8 units)

Educ. Found. 301. Social, Historical, and Philosophical Foundations of Education (4 units)

COMPOSITE LOWER DIVISION, UPPER DIVISION, AND FIFTH YEAR WORK

Students seeking recommendation for the Standard Teaching Credential with Specialization in Elementary School Teaching after five years of pre-service teacher education should follow this schedule:

Lower Division

General Education (44 units) Courses in the major (12 units) Courses in minor (6 units)

62 units Upper Division

General Education (6 units) Courses in the major (24 units) Courses in the minor (2-4 units)

Courses in Allied Studies (12 units)

Courses in Professional Education (12 units)

Junior year, Educ. Found. 311 (4)
Senior year, second semester, Educ. Elem. 331 (8)

Electives (4-6 units)

Fifth Year

Courses in the minor (10–12 units)

Courses in Professional Education (12 units)

Second semester, Educ. Found. 301 (4)

Electives (6-8 units)

Students seeking recommendation for the Standard Teaching Credential with Specialization in Elementary School Teaching on partial fulfillment of requirements should follow this schedule:

Lower Division

General Education (44 units) Courses in the major (12 units)

Electives (6 units)

Upper Division

General Education (6 units) Courses in the major (24 units) Courses in Allied Studies (12 units)

Courses in Professional Education (20 units)

Junior year, Educ. Found. 311 (4)

Junior year, Educ. Found. 311 (4) Senior year, first semester, Educ. Elem, 331 (8) Senior year, second semester, Educ. Elem. 339 (8)

Fifth Year

(To be completed during the first five years of teaching)

Courses in the minor (20 units)

Courses in Professional Education (4 units)
Educ. Found. 301 (4)

Courses for Distribution in Liberal Arts

Educ. Found. 301 (4) Electives (6 units)

> CURRICULUM IN SECONDARY SCHOOL TEACHER EDUCATION * Composite Lower Division, Upper Division, and Graduate Work

Courses for the Major

Major requirements vary, but must include at least 24 upper division and graduate units. At least 6 units in the major must be taken at the post-graduate level. See the appropriate sections of this Catalog for descriptions of requirements in specific majors.

Each student will complete a major planned with and approved by his major adviser and his professional adviser. Majors presently available are: Anthropology, art, biology, business administration, chemistry, communications with journalism

50 units

^{*}This is the curriculum for the Standard Teaching Credential with Specialization in Secondary School Teaching. Requirements for the General Secondary Credential will be found in the 1965-66 Catalog. This program may be subject to changes. Any such changes will be available in later college publications.

emphasis, drama, economics, English, French, geography, German, history, humanities with comparative literature emphasis, mathematics, music, philosophy, physics, political science, psychology, sociology, Spanish, speech.

Courses for the Minor

Major requirements vary, but must include at least 20 units in a single subject. If the major is non-academic, the minor must include at least 12 units of upper division and/or graduate work. See the appropriate sections of this Catalog for

descriptions of requirements in specific minors.

Each student will complete a minor planned with and approved by his major adviser and his professional adviser. Minors presently available are: Anthropology, art, biology, chemistry, communications with journalism emphasis, drama, economics, English, French, geography, German, history, humanities with comparative literature emphasis, mathematics, music, philosophy, physics, political science, so-

ciology, Spanish, speech.

N.B. Requirements specified above for majors and minors are credential minima. College requirements for majors for graduation are generally higher. A minor is not required for graduation from the College, but is required for a credential. Students should select majors and minors carefully. Some majors and minors, though legitimate for graduation, are not practical in terms of job placement, and students with impractical majors and minors will not be admitted to student teaching. Students in doubt regarding the selection of a major or minor should consult with professional and academic advisers.

Courses for the Pre-service Professional Education 18 units Elective Courses

These should be sufficient in number to complete the curriculum leading to the Credential.

The Bachelor of Arts degree may be conferred at the end of four years if

graduation requirements have been satisfied.

N.B. The applicant for the Standard Teaching Credential with specialization in Secondary School Teaching must complete 30 units of upper division and/or graduate work after he has completed all requirements for the bachelor's degree.

THREE-YEAR PROGRAM IN PROFESSIONAL EDUCATION

Professional education requirements for the credential are met through completion of the following program:

Educ. Sec. 340. Principles and Curricula of Secondary Education Educ. Found. 301. Social, Historical, and Philosophical Foundations	3 units
of Education	4 units
Educ. Found. 311. Psychological Foundations of Education Educ. Sec. 442. Teaching (Art, English, Music, etc.) in the Second-	4 units
ary School Educ, Sec. 749. Student Teaching in the Secondary School	3 units 6 units

Students will normally begin their work in professional education in the junior year, and it is expected that, with the exception of Educ. Found. 301, the courses listed above will be taken in the sequence indicated. Students who begin their work in professional education as seniors or as graduate students will follow a somewhat different sequence, and should consult professional advisers when planning their programs. In all cases, however, students are required to take Educ. Sec. 340 the first semester they are enrolled in professional education.

CURRICULUM IN JUNIOR COLLEGE TEACHER EDUCATION

The program requirements leading to the College Recommended Standard Teaching Credential With A Specialization In Junior College Teaching are:

 A master's or higher degree from CSCF or from an accredited institution whose standards are comparable.

2. Completion of the General Education requirements, or their equivalent, for

the bachelor's degree at CSCF.

 A major in a single subject normally taught in a junior college.
 (Course work in which subject a master's degree has been granted constitutes a major in that subject.)

4. A minor consisting of a minimum of twenty semester hours of work in a single subject normally taught in a junior college, twelve of which must be

upper division or graduate level.

5. Professional education:

Educ. Found. 721. Philosophy and Objectives of Junior College Education (2 units)

Educ. Sec. 744. Principles of Junior College Teaching (2 units)

Educ. Sec. 799. Junior College Student Teaching and Seminar (4 units)

Admission to the Program

Admission requirements to the program leading to The Standard Teaching Credential With A Specialization in Junior College Teaching are:

 Possession of an earned master's or higher degree from a fully accredited institution in a field in which CSCF offers a major

Classified graduate status at CSCF (master's degree candidacy) and possession of a baccalaureate degree.

2. Approval of the appropriate academic department.

3. Admission to junior college teacher education.

STATUTORY REQUIREMENTS FOR CREDENTIALS FOR TEACHING

The curricular requirements for credentials for teaching in California elementary schools and secondary schools are included in the above curricula. In addition, an applicant for a credential for teaching is asked questions about his citizenship, and about his ethical and moral character. The applicant must sign an oath of allegiance, must present a certificate of health from a qualified physician, and present official transcripts of collegiate studies. The applicant must present two sets of personal identification cards, including fingerprints. He must present evidence of having passed a course or suitable examination on the United States Constitution. Each application for a credential must be accompanied with a fee of \$8 in the form of a money order, cashier's check, or certified check.

Students with a bachelor's degree and teaching experience who wish to meet specific requirements for the former General Elementary Credential may do so

through the following courses at California State College at Fullerton:

California State College at Fullerton Courses Which Meet These Requirements

California State Requirements

1. Principles and Curricula of Elemen-

tary Education Educ. Elem. 331, 431

2. Elementary methods in basic sub-

jects Educ. Elem. 331, For. Lang. Ed. 432, Educ. Elem. 432R, Eng. Ed. 432, Math. Ed. 432, Sci. Ed. 432, Soc. Sci. Ed. 432

3. Child Growth and Development Educ. Found. 311, 312

4. Audio-Visual Education _____Educ. Elem. 331, Educ. Sch. Serv. 491

PERSONNEL SERVICES FOR TEACHER EDUCATION STUDENTS

Advisement is available to any student seeking a public school credential and a Bachelor of Arts degree. Prior to registration, the student should consult an adviser in the division in which he expects to major and an adviser in the Division of Education who will help him select courses and build his program. A student from another institution should bring transcripts of previous work and a tentative selection of courses. Each student is responsible for meeting all requirements set

forth in the catalog and supplements.

During the student's first semester after matriculation, he will receive from the Office of Admissions an evaluation of his credits which will list the requirements he must meet in earning the credential and the degree he has listed as his objective. If a student changes his degree or credential objective, he must have an evaluation for each new credential. The evaluation will serve as a guide for the student and the advisers in planning a complete program. Any deviation from this evaluation must be approved through written petitions submitted to the Chairman of the Division of Education. Transferred courses must be of upper division level and taken within the past fifteen years to be applicable to upper division credential requirements.*

ADMISSION TO TEACHER EDUCATION

Admission to CSCF does not constitute admission to teacher education curricula. To become a candidate for a teaching credential, the student must be matriculated, in good standing, and must file the "Application for Admission to Teacher Education" in the Office of the Division of Education. This application should be filed during the first semester that the student takes courses at the College.

Admission to teacher education is required of all students prior to seeking ad-

mission to student teaching.

A faculty committee will review information concerning the applicant's intellectual resources and mastery of important concepts in the common curricular areas of higher education, command of fundamental skills of communication (English language usage, written composition, speech, hearing, reading comprehension, handwriting, mathematical skills), scholarship, personality and character, interest in teaching, and health. Data related to these criteria are gathered from transcripts and records from other schools and colleges, group and individual tests, personality inventories, estimates of the potential of the applicant, and from the Student Health Center. Students should normally qualify for admission and be advised of their status during the second semester of the junior year or their first semester of attendance if they enter with advanced standing with degrees from accredited colleges.

Students who show weaknesses in any of the fundamental skills of communication are advised of their standing. If there are weaknesses in only one or two of the areas noted above, the student will be advised of refresher courses and given a

specified time to meet the standard.

If the applicant has serious deficiencies in communication skills or does not meet the standards of mastery in the common curricular areas, personality and character, scholarship, interest in teaching, or health, the faculty committee will deny admission to teacher education.

The student must arrange to take the required battery of group and individual tests and inventories necessary to provide information needed by the faculty committee. The test of general aptitude is included in the College admissions procedure. The tests of breadth of understanding, reading, English usage, number

^{*} Selected courses completed in lower division at institutions outside of the State of California may be applied to professional education credential requirements.

skills, composition, handwriting, and personality are given by the Testing Office for admission to teacher education; consult the Testing Office for dates.

The Student who comes to CSCF to work toward a credential for teaching in a secondary school and who already has a bachelor's degree must, before he is admitted to teacher education, consult with an adviser in the major and must submit a statement, signed by the adviser, which indicates the following:

- that the student's undergraduate preparation in his major is considered to be adequate for the credential sought, or
- 2. that the specific courses which the student must complete in order to have a major adequate for the credential sought, and which he must complete before he will be admitted to student teaching. These may be in addition to the minimum of the six upper division or graduate units required in the major in the post graduate year, or may, in part or in whole, satisfy this six unit minimum requirement.

Full details on standards and procedures for admission to teacher education are described in "Instructions and Standards for Admission to Teacher Education" which is available from the Division of Education.

ADMISSION TO STUDENT TEACHING

Admission to teacher education as described above is the first step in a cumulative and continuing evaluation of a candidate's fitness to teach. The applicant for admission to student teaching must have a grade point average of 2.5 in the major, 2.5 in the minor, and 2.5 in professional education. Marks of C, or better, are required in all professional education courses. Applicants for admission to elementary school student teaching must be classified as postgraduate students or be within 15 units of the baccalaureate degree. Applicants for admission to secondary school student teaching or to junior college student teaching must be classified as postgraduate students. All applicants must have completed at least twelve units at California State College at Fullerton. The applicant must present a favorable report on health status and history. He must present evidence of readiness for student teaching responsibility as testified by the major adviser, the professional adviser, and other college faculty. This evidence relates to scholarship, breadth of understanding, command of the subjects to be taught, fundamental skills of communication, personality and character, interest and potential for teaching, and health.

Competence is required in all subjects and skills for which the candidate is seeking a credential. For the elementary school teacher education student, this includes all subjects and skills commonly taught in the first eight grades of the public schools. Secondary school and junior college teacher education students must meet the requirements for major and minor(s) as specified by the academic divisions.

All instructors of the college are asked to participate in the continuing evaluation of students in relation to those aptitude, personality and character traits which are considered essential to admission to the teaching profession. Dependability in fulfilling assignments, class attendance, ability to get along with people, industry, and emotional stability are representative criteria. In addition to the evaluations by instructors, the applicants may be interviewed by a faculty committee, and attention will be directed to general appearance, dress, vitality, poise, temperament, integrity, and social attitudes.

The application for admission to student teaching is submitted to the Coordinator of Elementary Education or the Coordinator of Secondary Education. The application must be submitted by October 15 or March 1 of the semester preceding

the semester in which the student teaching assignment is expected. A faculty committee will gather the information described above and report to the student in time to do planning for the following semester.

Except for graduate students who are in their first semester of study at the College, applications will be accepted only from those who have completed all requirements

for admission to teacher education.

Full details on standards and procedures are described in "Instructions and Standards for Admission to Student Teaching" available in the Office of the Division of Education.

STUDENT TEACHING

Each candidate for the Standard Teaching Credential with Specialization in Elementary School Teaching will do his student teaching in the last semester he is in the teacher education curriculum or in his post-graduate year at the College. Each candidate for the Standard Teaching Credential with Specialization in Secondary School Teaching or for the Standard Teaching Credential with Specialization in Junior College Teaching will do his student teaching during a postgraduate year. Student teaching assignments are made in the elementary and secondary schools of districts geographically accessible to the College. Junior college student teaching assignments are made in nearby junior colleges or in lower division classes at the College. Students will be assigned to work under the supervision of carefully selected supervising teachers; a college supervisor makes frequent visits to the student teacher and the supervising teacher. Student teachers meet in a weekly seminar under the leadership of the college supervisor to discuss performance and problems.

STUDY LIMITS OF STUDENT TEACHERS

Students who enroll in Educ. Elem. 339 or 739, Student Teaching in the Elementary School, will be limited to one additional course for that semester. Students who enroll in Educ. Sec. 749, Student Teaching in the Secondary School, will be limited to two additional courses for that semester. It is expected that students will not carry out-of-college work responsibilities during the semester of the student teaching assignment.

If a student is under hardship because of these limitations, he may submit a petition to the Coordinator of Elementary Education or to the Coordinator of Secondary Education, as appropriate, requesting permission to carry not more than 13 units, including student teaching. The petition must set forth, in full, the

circumstances necessitating the petition.

PERMISSION TO SUBSTITUTE TEACHING EXPERIENCE FOR STUDENT TEACHING

A candidate for a teaching credential who has had two years of successful, regular teaching experience must petition the Division of Education, through his professional adviser, for permission to substitute such experience for the student teaching requirement. Substitution of teaching experience for student teaching will be considered only if the applicant:

1. Has been admitted to teacher education at the college.

2. Has submitted an official verification from his former supervisor, principal, or superintendent to the Division of Education certifying at least two years of successful, regular teaching experience at the appropriate level. A form for this verification is available in the Office of the Division of Education.

PROVISIONAL CREDENTIAL RENEWAL

The College is prepared to cooperate with students seeking renewal of provisional credentials awarded by the State Department of Education. However, a letter of recommendation to the State Department of Education for renewal of the provisional credential will be written for the student only if the following conditions have been fulfilled:

1. The applicant has been admitted to teacher education at the College.

The applicant has completed the six semester unit requirement established by the State Department of Education at the College.

Detailed statements of requirements for credentials and degrees are available in the Office of the Division of Education.

OTHER CREDENTIAL PROGRAMS

Administration and Supervision

Students must take Educ. Found. 503, Foundations for Educational Leadership, during their first registration in these fields. To continue in the program beyond this course, the student must be granted a "Letter of Admission to the Program" and possess an official CSCF program evaluation. The program is an integrated whole. Thus, students who desire only isolated courses from the program are normally denied admission to such courses. Details of this program are contained in a brochure available from the Division of Education. Students with previous successful administrative experience are exempt from these requirements.

Pupil Personnel Services

Students must take Educ. Sch. Serv. 452, Counseling Theories and Processes (Prerequisite: Educ. Sch. Serv. 351, Principles of Guidance) during their first registration in this field. To continue in the program beyond this course, the student must be granted a "Letter of Admission to the Program" and possess an official CSCF program evaluation. Details of this program are contained in a brochure available from the Division of Education.

PUBLICATIONS AVAILABLE FROM THE DIVISION OF EDUCATION

- 1. Master of Science in Education with concentration in School Administration and School Counseling.
- 2. Principles underlying pre-service teacher education at California State College.
- Admission to teacher education-standards, instructions, application.
 Admission to student teaching-standards, instructions, application.
- 5. Program in elementary school teacher education.
- 6. Program in secondary school teacher education.7. Program in junior college teacher education.
- 8. Program in school administration and supervision.
- 9. Program in pupil personnel services.

DIVISION OF FINE AND APPLIED ARTS

Division Chairman: John W. Olsen

The Division of Fine and Applied Arts includes academic offerings in the Departments of Art, Drama, Music, and Speech. Programs in these disciplines are provided both in breadth and depth; i.e., they are intended both for the major as well as the non-major. The broad areas of Fine and Applied Arts are conceived of as the study of those practical and aesthetic experiences necessary to the education of all persons in our modern society. Persons may elect to take courses leading toward a liberal arts degree, teaching credentials or for professional preparation in

art, drama, music, speech, or speech and hearing therapy.

Academic programs in the Division of Fine and Applied Arts include the areas of theory, history, and practice. Departmental majors within the Division are encouraged by this means to become widely acquainted with the broad contributions to society made by their major field, as well as the concentrated application of this area of study. Students are encouraged to stimluate their intellectual curiosity and to synthesize many areas of knowledge by means of careful planning of electives in various subject matter areas. To this end, the major adviser will assist each student in planning his major and minor programs and in the selection of appropriate interdisciplinary course.

MAJOR PROGRAMS

The curriculum in the Division of Fine and Applied Arts enables the college to offer the Bachelor of Arts degree with majors in Art, Drama, Music, and Speech and the Master of Arts degree with a major in Art. Graduate level courses also are provided for qualified students in the Departments of Music and Speech.

Courses leading toward clinical certification by the American Speech and Hearing Association are included in the speech therapy curriculum. Minors are offered in

art, drama, music and speech.

DEPARTMENT OF ART

Professors: Olsen (Chairman)

Associate Professors: Dietz, Hein, V. Smith Assistant Professors: Kerciu, Samuelson

Assistant Professors: Kerciu, Samuelson

Instructors: Evjenth Lecturer: Kuni

The Department of Art offers a program which includes the several fields of art history, theory, and appreciation, the fine arts (drawing, painting, and sculpture), the applied arts (general and specialized design and crafts), and art education. The broadest objective of the program is to contribute to the intellectual, social, and creative development of the learner as he prepares himself for citizenship in a democratic society. More specifically, the art program provides opportunities for students: (1) to develop a knowledge and understanding of those general principles of visual organization and expression basic to all forms and fields of art; (2) to develop a critical appreciation and understanding of historical and con-

temporary art forms through a study of these principles as they relate to the range of artistic production of mankind; (3) to use these general principles as a means to express more clearly their ideas, thoughts, and feelings in the creation of visual forms; (4) to develop those understandings and skills needed to pursue graduate studies in the field, to teach art in the schools, or to qualify for a position in business and industry as an art specialist.

Undergraduate curricula leading to the Bachelor of Arts degree have been designed to meet the specialized needs of the following groups: (1) students who wish to study art as an essential part of their personal and cultural development; (2) students seeking vocational competence in art; (3) students planning to teach art at the secondary level who wish either a teaching major or minor in art; and (4) students planning to teach in the elementary schools who wish to have art as either an academic major or minor.

To qualify for a baccalaureate degree with a major in art, students must have a C average in all courses required for the degree. No credit toward the major will be allowed for specific major courses in which a grade of D is obtained. As is customary, the Art Department reserves the right to hold projects completed by a student for class credit for a period of three years.

MAJOR IN ART FOR THE BACHELOR OF ARTS DEGREE

Four course programs have been planned to meet the individual needs and interests of students working for the bachelor of arts degree with a major in art.

In the development of specific course offerings which make up these programs, it has been the concern of the art faculty to see that each program contains: (1) basic courses in art history, theory, appreciation, and studio practice which have as their primary focus the study of those general principles of visual organization and expression underlying all fields of art; (2) more specialized courses which provide for adequate preparation in depth in a single field of art. The teaching of art history, theory, and criticism is not confined to those courses bearing that title. Rather, each studio course involves theory as well as the practice of art, includes as part of its content the study and reference to related historical art forms, and has as part of its purpose the development of those critical abilities which are necessary to a valid evaluation and appreciation of the art expressions of man.

Plan I provides for an emphasis in the area of art history, theory, and appreciation and is particuarly recommended for those students who wish to pursue gradu-

ate studies in art history or museology.

Plan II is designed for those students who prefer a studio-type program with an area of specialization selected from the following: (1) design; (2) crafts; (3) drawing and painting, or (4) sculpture.

Plan III is for those students who wish to meet the requirements of the standard teaching credential with specialization in secondary or junior college teaching; and Plan IV is for those students who wish to meet the requirements of the standard

teaching credential with specialization in elementary teaching.

All four plans require a minimum of 48 units in art or approved related courses with a minimum of 24 units of upper division in art except for Plan IV which requires a minimum of 36 units of art including a minimum of 24 units of upper

division in art.

In addition to the requirements listed below for the major, students must meet the other college requirements for a bachelor of arts degree (see page 45). Students following Plans III and IV also must meet any specific requirements for the desired teaching credential (see section in catalog for Division of Education). Graduate students who plan to meet the requirement for a standard teaching credential with specialization in secondary school teaching with a major in art must

complete or be enrolled in 6 units in art as approved by the major adviser on and beyond the specific course requirements listed in Plan III before they can be

recommended by the Art Department for student teaching.

Beginning with the fall semester, 1965, students following Plan III will divide their student teaching between two semesters and will register for three units of credit each semester. (See prerequisites and course description for Art Education 549).

PLAN I: ART HISTORY AND APPRECIATION EMPHASIS

Lower Division: Art history and appreciation (9 units); Art Structure (3 units); approved electives (12 units) in: art, anthropology, drama, foreign languages, history, literature, music or philosophy _______ 24 units

Upper Division: Art history and appreciation (24 units), including a minimum of 3 units in special studies and coverage of four of the following

fields: primitive, classical, medieval, renaissance, baroque, modern,
Oriental, American

Reading knowledge of one modern foreign language Comprehensive examination in art history

PLAN II: STUDIO EMPHASIS

- Lower Division: Art history and appreciation (9 units); drawing and painting including life drawing (9 units); design and crafts (6 units)... 24 units
- Upper Division: Art history and appreciation (6 units); area of specialization (12 units); art electives (6 units) ________24 units

PLAN III: TEACHING EMPHASIS (Secondary or Junior College)

- Lower Division: Same as Plan II above ______ 24 units
- Upper Division: Contemporary art (3 units); drawing and painting (3 units); display and exhibition design (2 units); crafts (3 units); sculpture or ceramics (3 units); 6 units selected from advertising design, industrial design, costume design, interior design, or fabric design; electives (4 units)

24 units

PLAN IV: TEACHING EMPHASIS (Elementary)

Upper Division: Art history and appreciation (6 units); drawing and painting, (3 units); design (3 units); crafts (3 units); electives (9

painting, (3 units); design (3 units); crafts (3 units); electives (9 units) ______ 24 units

MINOR IN ART FOR THE BACHELOR OF ARTS DEGREE

A minimum of 24 units is required for a minor in art for the bachelor of arts degree of which a minimum of 10 units must be in upper division courses. Included in the program must be a basic course in each of the following areas: (1) art history and appreciation; (2) design; (3) drawing and painting; and (4) crafts. Those students planning to qualify for a standard teaching credential with specialization in elementary or secondary teaching and art for a minor must obtain approval from the Art Department for the courses selected to meet the upper division requirements for a minor in art.

MASTER OF ARTS DEGREE IN ART

The program of studies leading to the Master of Arts degree in Art provides a balance of theory and practice for those who desire to teach art or wish to develop a sound basis for continued advanced work in this field. The program offers each student the opportunity to expand his intellectual and technical resources and to acquire greater richness and depth in terms of creative understanding and achievement in one of the following areas of concentration: (1) Art History and Appreciation; (2) Drawing and Painting; (3) Crafts; (4) Design; and (5) Sculpture.

Prerequisites for the Program

Prerequisites to the program include:

- (1) an undergraduate major in art or 24 units of upper division art including at least 12 units of upper division study in the elected area of concentration with a GPA of 3.0 or better:
- (2) a committee evaluation of the student's background and record in art, including the presentation of a portfolio of representative work by the student;
- (3) completion during the first semester of the Aptitude Test of the Graduate Record Examination

Program of Studies

The degree program requires 30 units of graduate study approved by the student's graduate committee of which 18 must be 500 level courses. The 30 units are distributed as follows:

1. 500 level courses in Art	18	3–21 units
A. Core courses in Art, History, Philosophy, Analysis and Criticism	9 units	
 (1) Art 500: Graduate Seminar in Art (3 units) (2) Art 501: Graduate Seminar in Art History and Appreciation (6 units) (On the recommendation of the adviser, the student may substitute 3 units in Philosophy 311, Philosophy of Aesthetics, or a 400 number art history course as partial fulfillment of this requirement.) 		
B. Course work in the area of concentration selected from one of the following areas (1) Art History and Appreciation (2) Drawing and Painting (3) Crafts (4) Design (5) Sculpture		
C. Project or Thesis	3-6 units	
2. Additional Courses		9-12 units
A. 500 and/or 400 level courses in art so as to extend the	Chairby 1	
student's field in depth B. 500, 400, and/or 300 level courses either in courses outside the art department related to the student's special area of interest or in courses within the art department outside the area of concentration so as to expand the student's field in breadth	3–6 units	
Total	ALEGOR, IQ	30 units

All courses must be completed with a B average, and all courses in the area of concentration must be graded B or better.

Also see Procedures in Graduate Study, beginning on p. 49.

DEPARTMENT OF DRAMA

Professor: Young (Chairman) Assistant Professors: Brown, Zeltzer

Instructor: McColgan Lecturer: Duerr

The Department of Drama offers a program which includes the several fields of Theatre History and Theory, Playwriting, Acting-Directing, Technical Theatre, Interpretation, and Radio-Television. The primary purpose of the program is to bring the student into contact with one of man's major cultural institutions, the Theatre, which has been a vital factor in shaping the attitudes, ideas, mores, and points of view of oncoming generations. More specifically, the course work in the drama program provides opportunities for students: (1) to develop an appreciation for the theatre as a cultural heritage of man; (2) to become sensitive and responsive to the theatre experience in contemporary society; (3) to develop the skills and understandings necessary to pursue theatre as a profession; (4) to teach drama and television in the schools; and (5) to pursue graduate studies in drama and television.

Undergraduate curricula leading to the Bachelor of Arts degree have been designed to meet the specialized needs of the following groups: (1) students who wish to participate in drama and television as an essential part of their personal and cultural development; (2) students seeking professional vocational competence in Interpretation, Acting and Directing, Technical Theatre, Radio and Television, or Playwriting; (3) students planning to teach drama and television at the secondary level who wish either a teaching major or minor in drama and television; and (4) students planning to teach in the elementary schools who wish to have drama as either an academic major or minor.

To qualify for a baccalaureate degree with a major in drama, students must have a C average in all courses required for the degree. No credit toward the major will

be allowed for required major courses in which a grade of D is obtained.

In addition to specific course requirements, students majoring in drama must participate in a minimum of eight theatre or television productions prior to graduation. The productions chosen for credit will be selected with the aid of the departmental adviser.

MAJOR IN DRAMA FOR THE BACHELOR OF ARTS DEGREE

Four course programs have been planned to meet the individual needs and interests of students working for the bachelor of arts degree with a major in drama.

Plan I is for those students who wish to study drama as a cultural contribution or who wish to pursue graduate degrees in drama with emphasis in theatre history and theory. It is strongly recommended that students electing this plan support the major with approved electives from art, drama, music, foreign languages, litera-

ture, philosophy or speech.

Plan II is designed for those students who wish to develop the necessary competence in drama for either pursuing drama as a profession or for pursuing graduate degrees in drama with an emphasis in an area of concentration other than history of the theatre. Areas of concentration are: Playwriting; Acting-Directing; Interpretation; Radio-Television and Technical Theatre.

Plan III is for those students who wish to meet the requirements of the standard teaching credential with specialization in secondary or junior college teaching; and Plan IV is for those students who wish to meet the requirements of the standard

teaching credential with specialization in elementary teaching.

All four plans require a minimum of thirty-six (36) units in drama with a minimum of twenty-four (24) units of upper division in drama. The lower division

requirements are the same for all four plans.

In addition to the requirements listed below for the major, students must meet the other college requirements for a bachelor of arts degree (see page 45). Students following Plans III and IV also must meet any specific requirements for the desired teaching credential (see section in catalog for Division of Education). Graduate students who plan to meet the requirements for a standard teaching credential with specialization in secondary teaching and a major in drama must complete or be enrolled in six (6) units in drama as approved by the major adviser on and beyond the specific course requirements listed in Plan III before they can be recommended by the Drama Department for student teaching.

PLAN I: THEATRE HISTORY AND THEORY EMPHASIS

Lower Division: Oral Interpretation (3 units); Acting or Stage Movement (3 units): Technical Theatre (6 units) 12 units

Upper Division: Theatre History and Analysis (12 units); area of concentration other than Theatre History, (6 units); Electives (6 units) 24 units

PLAN II: PROFESSIONAL EMPHASIS IN AN AREA OF CONCENTRATION

Loquer Division: Same as Plan I.

Upper Division: History of the Theatre (6 units); area of concentration in either Playwriting, Acting-Directing, Interpretation, Radio-Television, or Technical Theatre (12 units); Electives (6 units)

PLAN III: TEACHING EMPHASIS (Secondary or Junior College)

Lower Division: Same as in Plan I

Upper Division: History of the Theatre (6 units), Acting-Directing (6 units), Technical Theatre (6 units), and Electives (6 units) 24 units

PLAN IV: TEACHING EMPHASIS (Elementary)

Lower Division: Same as in Plan I

Upper Division: History of the Theatre (3 units); Oral Interpretation (3 units); Dramatic Activities for Children (3 units); Reading Theatre (3 units); Dance Theatre (4 units); Radio-Television (3 units); Electives (5 units)

24 units

MINOR IN DRAMA

The minor in drama consists of twenty-four units, fourteen of which must be in upper division. Included in the program must be a basic course in each of the following areas: (1) Oral Interpretation, (2) Stagecraft, (3) Acting, (4) History of the Theatre, and (5) Television. Those students planning to qualify for a standard teaching credential with specialization in secondary teaching and drama for a minor must obtain approval from the Drama Department for the courses selected to meet the upper division requirements for a minor in Drama.

In addition to course requirements, students minoring in drama must participate in a minimum of four theatre or television productions prior to graduation. The productions chosen to meet this requirement are selected with the approval of the departmental adviser.

DEPARTMENT OF MUSIC

Professor: Landon (Chairman)

Associate Professors: Gray, Lewis, Michalsky, Thorsen

Assistant Professors: Fuszek, Lampl

Lecturers in Applied Music (Part-time): Boelter (Voice), Caudill (String Bass), Eddy (Voice), James (Viola), Johnson (Baritone-Tuba), Juda (Piano), Kelley (String Bass), Lustgarten ('cello), Muggeridge (Oboe), Nowlin (Bassoon), Peebles (Trombone), Pyle (French Horn), Remsen (Trumpet), Roberts (Voice), Schoenfeld, A. (Violin, Viola), Schoenfeld, E. ('cello), Shaffer (Organ), Voorhies (Piano), Wade (Flute), Wicks (Violin).

The Department of Music offers courses in music for both majors and non-majors. The fundamental purpose of the music major curriculum leading toward the baccalaureate degree is to provide the necessary training in each of the related aspects of music such as its history and literature, theoretical studies, and musical performance. Such a program of studies is based on the need to provide serious students with a core curriculum which will prepare the individual in such areas as (a) the knowledge of the history and relationships of music as an art form, (b) a comprehensive and analytical understanding of musical literature, (c) a working knowledge of music theory and structure, (d) a high degree of competence in a performing field, and (e) a specialization within the major.

The music program is designed to educate:

- 1. Students in general, in terms of composite minors, music minors, or broad offerings in the humanities or liberal arts.
- 2. Students preparing to teach in the elementary and/or secondary schools, with a major field concentration in music (special music teachers).
- 3. Students preparing to teach in the elementary schools with a major field concentration in music (classroom teachers).
- 4. Students preparing to teach in the junior colleges and four-year colleges with a major field concentration in music.
- 5. Students other than music majors preparing to teach as classroom teachers in the elementary schools.
 - 6. Students wishing to prepare for various vocations in music, such as:
 - a. Church music directors and organists
 - b. Teachers of music in private studios
 - c. Music librarians
 - d. Professional performers of music
 - e. Composers and arrangers
 - f. Industrial and recreational music directors

REQUIREMENTS OF THE DEPARTMENT OF MUSIC

1. Entrance examinations in basic piano, voice, theory, and music history will be given all music majors at the time of entrance to the College and to lower division students prior to acceptance in upper division music-major sequence. These examinations plus auditions in the major performance areas are for placement and to satisfy credential requirements in the minor performance fields. Students who are deficient in any of these areas will be expected to take additional work as suggested by the faculty adviser.

- 2. Music majors will be expected to declare a principal area of performance with the approval of the Department Chairman and faculty adviser, no later than the beginning of the junior year. It will be expected that each student will prepare for suitable development within this major area of performance, culminating in the successful presentation of a senior recital before he may be approved for graduation. The following steps should be taken as a part of this preparation:
 - a. Declaration of an area of performance concentration (voice, piano, instrument, or combination solo instrument or voice and conducting) at the time of entrance to the College.

Demonstration of performance progress before a faculty jury each semester.

mester.

- c. Appearance in at least one minor recital or an assisting performer at least once each semester.
- 3. All music majors are required to participate in a major performance group (band, orchestra, or chorus) each semester of the regular school year. Students who are wind or percussion instrument majors in their applied field must register for band (or orchestra if designated by instrumental faculty) every semester; string majors must register for orchestra every semester; voice majors must register for chorus every semester. Music Education majors whose performance area is piano or organ should be assigned to one major performance group by academic advisor. Exceptions to this requirement may be made only by action of the music faculty.
 - 4. Instrumental and piano majors are required to take part in small ensembles for a minimum of two semesters.
 - 5. The major area of performance concentration for major in music requires work in applied music, as follows:
 - a. Piano, Voice and Instrumental majors—must complete a minimum of 8 semesters of applied music in the major field of concentration, leading toward the successful presentation of a senior recital in the major performance field.
 - b. Choral or Instrumental Conducting majors—must complete a minimum of 8 semesters of applied music in the major field of performance concentration, in addition to a minimum of 6 units in conducting, leading toward the successful presentation of a joint recital in the major performing field and/or a conducting recital.

c. A credential proficiency examination in both piano and voice must be satisfactorily passed before music majors may begin student teaching.

These tests are usually given at the end of the junior year.

- 6. Senior transfer students entering the College with a major in music, or graduate students in music entering to complete credential requirements will be expected to complete a minimum of one semester of successful upper division work in music before they may be approved for directed teaching. Required courses and competencies expected of all the College music majors must be satisfied prior to endorsement by the faculty committee for acceptance in the credential program.
- 7. All music majors will be expected to attend a weekly departmental organization class (MU 400) each semester of enrollment.

FEES FOR APPLIED MUSIC

Applied Music (private instruction in voice or major instrument), per lesson \$1.00-\$6.00.

Studio fee, including 14 half-hour lessons and examination, per semester \$70.00-\$96.00.

MUSIC DEGREE PROGRAMS

The Department of Music offers a variety of courses and programs leading to baccalaureate and graduate degrees in teaching and the professions. These degrees may be earned in one of three degree patterns; i.e., specializations in elementary or secondary music teaching or for non-credential objectives. It is possible to elect suitable concentrations within these specializations in such areas as composition, conducting, vocal or instrumental music.

Advanced study through upper-division and graduate courses is offered in many fields of music. Although the masters degree program is not yet available it is anticipated that several of these courses soon will be applicable for graduate degree

preparation.

Lower Division

BACHELOR OF ARTS IN MUSIC (Non-Teaching Objectives)

The program of studies leading toward the B.A. in music is designed to provide suitable preparation in such professional areas as (1) theory and composition, (2) performance, (3) non-teaching professions in music, (4) musicology, and (5) advanced degrees in music. The music major, professional degree program shall consist of no fewer than 60 semester units, of which at least 36 shall be in the upper division. In addition, students are required to take MU. 151A,B or the equivalent as partial fulfillment of the general education requirement in Fine and Applied Arts. The following minimum requirements are basic to this degree objective.

THE DIVISION AND ADDRESS OF THE PROPERTY OF TH	
	Units
(including musicianship, sight-singing, dictation, diatonic and chromatic	
harmony and keyboard)	
Applied Techniques	
(including ensemble, principal instrument or voice, basic piano and voice)	12
Proficiency Examination of (1) Theory (2) Elizary and Increment (1) Pranc.	P
Total, Lower Division	24
Upper Division	
Theory of Music	
(including counterpoint, composition, analytic techniques and	
orchestration)	. 8
Music History and Literature	. 4
Applied Techniques	
(including ensemble, principal instrument or voice)	. 8
Specialization in the Major	
(courses required for area of specialization, to include composition, con-	
ducting, instrumental techniques, music education and theory)	. 14
Electives, music	
	_
Total, Upper Division	_ 36
In 191A,B Choral Conducting	
Total Units, Lower-Upper Division	- 60

Note: All candidates for the B.A. Degree with the music major must complete specific requirements for the area of performance concentration in addition

to the core of studies indicated above.

RECOMMENDED PROGRAM OF STUDIES FOR THE BACHELOR OF ARTS IN MUSIC (MUSIC EDUCATION SPECIALIZATION)

Five-year Program Leading Toward the Standard Teaching Credential, Secondary Specialization

Refer to credential requirements, Division of Education, 1965-66 Catalog.

In addition to the major field requirements, candidates for the standard teaching credential with specialization in secondary school teaching must complete a minimum of 20 units in another field for a liberal arts or academic minor. Courses in the major may be distributed to include the fifth year in order that the student may complete all requirements for general education, the academic minor and professional education (except Mu. Ed. 549) by the end of the fourth year and prior to beginning student teaching.

The following is an example of a modified program for the secondary credential:

Lower Division			
Freshman Year:			
Mu 111A,B A	Music Theory	Market Controlled Section	6 units
Mu 151A,B S	Survey of Musical Literature	coroniz to marg	4 units
Mu 161 P	Performance Ensemble	our manners	2 units
Mu 170-176 P	Principal Instrument or Voice		2 units
Mu 182A,B I	Piano Class for Mus. Majors	delight of the same	2 units
College requir	Performance Ensemble Principal Instrument or Voice Piano Class for Mus. Majors Pements, including general education		16 units
Total	pene of the general editation required	Miles temaq as	32 units
Sophomore Year	· D m two sentences		
Mu 211A,B N	Music Theory		6 units
	Performance Ensemble		
	Principal Instrument or Voice		
Mu 183A,B \	Voice, Class for Mus. Majors	idensialam, seit	2 units
College requir	ements, including general education		
Total		Techniques	
(4) Voice, (5) P	Examination in (1) Theory, (2) History Principal Instrument or Voice.	y and Literature,	(3) Piano,
Upper Division			
Junior Year:	ation (to complete 50)		
General Educa	ation (to complete 50)	<u> mogratiun, pro</u>	5-10 units
	nor (to complete 20 minimum)		
	ducation (Ed. 340 and Ed. 311)	non I has Vive	7 units
Music Courses	, to include:	sandung as L	
Mu 312A	Counterpoint	2 units	
Mu 321A	Form and Analysis	2 units	
Mu 322A	Composition	2 units	
Mu 351A,B	Music History and Literature	6 units	17-7 units
Mu 361	Performance Ensemble	2 units	Lieduves
Mu 201 A D	Principal Instrument or Voice Orchestral Instruments	2 units	
Mu 391A,B	Choral Conducting	2–4 units	
Wiu 391A,D		4 units	PRO .
Total	. FREE TON APPLIED AND A		34 units

Senior Year: General Education	tion (to complete 50)		ndias.	5-10	units
Academic Mine	or (to complete 20 minimum)	Alles	10000	_5-10	units
Ed. 301				4	units
Music Education	on, to include:				
Mu Ed. 441	Teaching Music Theory and Apprecia-		ee mine		
Aug Street Street	tion in the Public Schools	2-3*	units		
Mn Ed 442	Teaching Vocal Music in the Public				
Mu Ed. 772	Schools	2_3*	unite	7	units
M. FJ 442	Schools Teaching Instrumental Music in the Pub-	2-7	uiiits		
Wiu Ed. 443	lic Schools	2 2*	ense on		
Music Courses,	Music Theory Electives	O 1	and in		
MIT 244		2	units		
MU 361	Performance Ensemble	2	units		
MU 3/0-3/8	Principal Instrument or Voice	2 1	units	12 2	
	Orchestral Instruments		units	13-3	units
MU 392A	Instrumental Conducting	2	units		
ACT 100	Approved Music Electives	5	units		
MU 498			there in		
Total	dary teaching credestials. A meximum so minded in vox connect considering	secon	HEY OF	_ 34	units
Postgraduate Year	r: Zinu 0. lo nominado di mamini		require		
Professional Ed	ucation, to include:	. Jan			
Mu. Ed. 749	Student Teaching in Music in Sec. School	ol	BWO1 to	_ 6	units
Music Courses.	to include:				
MU 361	Performance Ensemble	2	units]		
MU 370-378	Principal Instrument or Voice	2	units		ela.
	Approved Music Electives	2	units }	24	units
Courses to co	omplete major or toward ree specialization		for yet		
higher deg	ree specialization	1	8 units		
Thomas a Contractor					
Total	n less desta mande en anne metallichen	stelen	COLUMN TWO	30	units

BACHELOR OF ARTS, WITH CONCENTRATION IN MUSIC (FOR ELEMENTARY CLASSROOM TEACHERS)

This degree program is designed for persons interested in a non-professional liberal arts emphasis in music. It is a suitable concentration for persons preparing as general elementary classroom teachers. It should be emphasized that this degree program is not designed for the music specialist in public schools, nor does it prepare for advanced degrees in music or for most music professions. This major consists of no fewer than 36 semester units, of which at least 24 units must be taken in the upper division. In addition, students are required to take Mu. 100 or 151A,B or the equivalent as partial fulfillment of the general education requirement in Fine and Applied Arts. The following distribution of subject matter and competencies shall be considered to be the core of this major:

Lower Division

Theory of Music		Units
(including music fundamentals, musicianship, sight-singing, dictation,	and	es West
harmony)	1771115	8–9

^{*} Students without teaching experience must register for three units credit in one of the following: MU 441, 442, or 443.

	Units
Applied Techniques (including ensemble, principal instrument or voice, basic piano and voice)	3-4
	12
Upper Division Theory of Music	2-4
Applied Techniques * (including ensemble, orchestral instruments, conducting, piano and voice)	
Total, Upper Division	24
Total Units, Lower-Upper Division	36
MINOR IN MUSIC	M
The Minor in Music may be used as an appropriate area of study by perwhose majors are in other fields, or may be used to satisfy minor field requires for elementary or secondary teaching credentials. A maximum of 12 units the lower division may be included in work counted toward the music minor music minor requires a minimum preparation of 20 units.	from The
Composite of Lower Division and Upper Division	
Theory of Music (Selected from MU 101, 111A,B, 211A,B or any 300 or 400 level theory classes for which student is qualified) Music History and Literature (MU 100, 151A,B, 350 or courses at the 300 or 400 level for which student is qualified)	6
Applied Techniques (Including ensemble, conducting, piano or voice, orchestral instruments, and principal instrument or voice)	8–10
Note: Students expecting to use the minor for teaching must complete MU 181a-d and/or 381a-d, Orchestral Instruments (4 units) and a minimum of two units in an ensemble appropriate to their area of specialization.	Plano
Total Units and the second of the second mountain visiting in the second of the second	20

DEPARTMENT OF SPEECH

Professors: Anderson, Fessenden (Chairman)

Associate Professors: Long **

Assistant Professors: Granell, Kaplan

Instructors: Good

Course work in the Department of Speech is directed toward four goals: (1) to provide an understanding and appreciation of the importance of oral communication in our society; (2) to provide professional training in such areas as teaching, business, law, and others where the ability to speak well and to communicate effectively is basic; (3) to prepare specialists in public address and speech therapy and audiology; and (4) to correlate such activities as intercollegiate forensics and

^{*} Elementary credential candidates must take a minimum of 2 units each of piano and voice (non-principal) and pass satisfactorily the junior level proficiency in each.

** College Administrative Officer.

school and community clinic experiences with the theory, principle, and history taught in the courses in the areas of rhetoric and speech therapy and audiology.

MAJOR IN SPEECH FOR THE BACHELOR OF ARTS DEGREE

Four course programs have been planned to meet the individual needs and interests of students working toward the bachelor of arts degree with a major in speech and for a teaching credential with specialization in elementary, secondary, or to serve as a teacher of exceptional children in the area of the speech and hearing handicapped.

Each of these plans requires a total of 36 units beyond the General Education requirements, 24 of which must be in the upper division. Each also has a basic

core requirement as follows:

Lower Division: Drama 211 and Speech 231A.

Upper Division: Speech 334, 341, 403, 424, and either 434 or 436.

Specific course requirements are as follows:

Plan I provides for emphasis in rhetoric and public address and is particularly recommended for students who plan to pursue graduate study in this area.

Lower Division: Additional requirement of either Speech 138 or 202, and 231B.

Upper Division: Additional requirement of 335.

Plan II is designed for students who wish to work toward a teaching major in speech with specialization in secondary teaching.

Lower Division: Additional requirement of Speech 138 and 231B. Upper Division: Additional requirement of Speech 335 and 338.

Plan III is planned for students who wish to work toward a major in speech with specialization in elementary teaching.

Lower Division: Additional requirement of Speech 202.

Upper Division: Additional requirement of Speech 301 and 441.

Electives in each of these plans to complete the minimum of 36 units should be chosen after consultation with a departmental advisor.

Plan IV is designed to provide the student with specialized preparation to serve as a teacher of exceptional children in the area of the speech and hearing handicapped. This program leads toward fulfilling the requirements for certification in the American Speech and Hearing Association and the California State Credential.

Students following this plan should select as early as possible one of at least two appropriate paths toward the state credential. The first includes the addition of the specialized preparation to the Standard Teaching Credential. With this procedure, the student may be employed either as a regular classroom teacher or as a public school speech and hearing therapist.

The second precludes employment as a regular classroom teacher by substituting for the minor and certain professional education courses the specialized preparation to serve as teacher of exceptional children in the area of speech and hearing.

The specialized preparation in both instances includes the following:

(1) Education 452 and 471

(2) Speech 403

(3) Speech 458 (6 units) and Speech Ed. 459

(4) Twenty-four units selected from Speech 341, 351, 404, 441, 443, 451, 452, 557, Psychology 341, 342

(5) Speech 461, 462, 463

For details on hours of clinical practice, student teaching, substitution possibilities, candidates for the old credential, and partial fulfillment of requirements, the student should consult with the Director of the Speech and Hearing Clinic.

MINOR IN SPEECH

The minor in Speech is twenty units of approved course work. Eight units may be in the lower division and normally are the same as those required for the major: Speech 138 or 202, Drama 211, and Speech 231A or their equivalents. Twelve units must be in the upper division level and should be chosen in consultation with a departmental advisor. In general, the student seeking speech as a minor for the Standard Teaching Credential will be recommended to include Speech 301 and Speech 403; the student seeking to teach Speech on the secondary level will be recommended to include Speech 334 and Speech 335. The six units of electives should be determined according to the student's major interests and goal.

DIVISION OF HUMANITIES

Division Chairman: Orrington C. Ramsay

The Division of Humanities includes the departments of English, Foreign Languages and Literatures, Communications, Philosophy, and an inter-departmental program in Comparative Literature. Students having majors in the division develop facility in verbal communication, critical appreciation of man's imaginative achievements, and the exploration of ideas and values.

The offerings in the Humanities contribute significantly to a general, liberal education, in addition to preparing for the teaching profession, graduate study,

and other occupational pursuits.

The Humanities recognize that to be humane is at once the most difficult and the most precious achievement of man. It requires not only an understanding of the things that are, but a vision of things that ought to be. So conceived, humanistic studies attempt to develop an enlarged sensibility as to the possibilities of human experience.

Majors and Minors:

Communication: News Communication (Journalism) Emphasis

English French

German

Humanities: Comparative Literature Emphasis

Philosophy Spanish

The Division also offers a Master of Arts degree in English.

The instructional program of the Division is strengthened by the Humanities Series of visiting lecturers, rapidly expanding library resources, and a divisional collection of literary recordings.

BACHELOR OF ARTS DEGREE HUMANITIES MAJOR: COMPARATIVE LITERATURE EMPHASIS

The program in Comparative Literature is governed jointly by the Departments of English and of Foreign Languages and Literatures, with the chairman of the

Humanities Division acting as chairman of the program.

The program in Comparative Literature provides courses in the study of various national literatures from the earliest times to the present, with special emphasis on the manifold interrelations of literatures, in theory, genres, ideas, movements, and authors. Works are read in English translation and the courses conducted in English. For students whose major concentration is not in Comparative Literature, the knowledge of a second language is not required.

Requirements: A combined total of 36 units beyond General Education require-

ments as follows:

1. Proficiency in at least one foreign language; this requirement may be satisfied by completing with a grade of B or better the fundamental and intermediate language courses, or by examination.

- 2. A combined minimum of 15 units in English and Foreign Languages and Literatures.
 - 3. A minimum of 15 units from the Comparative Literature offerings.
 - 4. Electives: 6 units on advisement.

MINOR IN COMPARATIVE LITERATURE

Requirements: A combined total of 21 units, as follows: a maximum of 9 lower division units plus a minimum of 12 upper division units.

DEPARTMENT OF COMMUNICATIONS

Professor: Maxwell (Chairman) Associate Professor: Alexander

Assistant Professors: Johnson,* Smythe

The program of the Department of Communications serves students with interests in communication by offering a curriculum integrating the liberal arts and professional courses in mass media techniques.

The department offers a major in Communication with a News Communication (Journalism) emphasis, and is developing additional communications emphases in Advertising, Public Relations, Photocommunication, and Telecommunication. A

number of courses are now offered in these developing emphases.

The Communication major helps to prepare those desiring various careers related to mass communication-careers that may involve newspapers and magazines, television and radio, advertising, public relations, photography, industrial or governmental communications, and teaching. Also, because of the program's emphasis on general principles of communication, it can serve well those with aspirations for administrative work in many areas of business, industry, government and education. Additionally communication courses will benefit those who wish only a better understanding of the functions of the mass media in a democratic society.

BACHELOR OF ARTS DEGREE

Communication Major: News Communication (Journalism) Emphasis

Requirements: A combined total of 48 units-36 within the Communications Department and 12 in other departments, as follows:

Academic Core (36 units)

Communication 101, Reporting and Writing (3)

Communication 102, Reporting and Writing (3)

Communication 333, Mass Communication in Modern Society (3)

Communication 334, Feature Article Writing (3) Communication 335, Reporting of Public Affairs (3)

Communication 425, History and Philosophy of American Mass

Communication (3)

Communication 426, World Press and Propaganda Analysis (3)

Communication 427, Seminar on Current Issues in Mass Communication (3)

† Economics 201, The American Economy (3)

† English 462, Modern British and American Novels (3)

† History 476, United States Since 1933 (3) † Psychology 351, Social Psychology (3)

^{*} College Administrative Officer.
† Some flexibility may be permitted as to major requirements in economics, English, history and psychology, depending on the student's preparation in these areas.

News Communication Emphasis (12)

Communication 218A, Introduction to Photography (2)

Communication 218B, Communications Photography (2)

Communication 332, Copy Editing (3)

Communication 338, Newspaper Production (3)

Communication 439, Mass Media Internship (2)

MINOR IN COMMUNICATION

Requirements: A combined total of 21 units, as follows:

Lower Division (Maximum of 7)

Communication 101 or 102 (3)

Communication 218A and 218B (2, 2)

Upper Division (Minimum of 14 units)

* Communication 331 or equivalent (3)

Communication 333 (3)

Communication 338A (3)

Communication 358A or 358B (2)

Communication 425 (3)

TEACHING CREDENTIAL REQUIREMENTS

Communication majors with News Communication (Journalism) emphasis who plan to offer journalism as their major subject for a teaching credential must have their minor approved by the chaiman of the Communications Department and must complete the required professional education courses in addition to their major and minor requirements.

FOREIGN LANGUAGE RECOMMENDATION

Majors who are planning careers in news communication are strongly urged to acquire proficiency in a foreign language.

DEPARTMENT OF ENGLISH

Professors: Ramsay (Chairman)

Associate Professors: Bonazza, Cummings, Jones, McNelly, Obler, Salz, Schneider Assistant Professors: Austin, Brunelle, Edwards, Friend, Greenwood, Scott, Stuart, Wagner

The study of "English" emphasizes the nature and development of our language, the craft of writing, and the imaginative literature of American and British authors—prose fiction, poetry, and drama. Except for the required Freshmen English offerings, courses in world literature in English translation are listed separately, under Comparative Literature. In addition, the Department of English offers some specialized professional courses. On the senior and graduate levels, various opportunities are provided for seminar work and independent study.

English 101 and 102 or their equivalents or the consent of the instructor is a prerequisite to all English and Comparative Literature courses numbered 200 and above.

^{*} Some variation in these requirements may be permitted on the basis of professional experience or interest.

BACHELOR OF ARTS DEGREE: ENGLISH MAJOR

Requirements: A total of 36 units beyond English 101 and 102 or their equivalents, with the following distribution:

Lower Division (Maximum of 9 units), including:

211, 212. Masters of British Literature (6 units).

Lower Division elective (3 units)

Students offering American Literature in the Lower Division must take at least 9 units in courses in the periods of English literature preceding the modern. Students offering a survey of English literature course from the lower division must take 6 units of American Literature.

Upper Division (Minimum of 27 units)

Language and Composition (Minimum of 3 units), selected from the following:

301. Advanced Compostion

303. The Structure of Modern English 490. History of the English Language

Major Author Courses (9 units)

333. Chaucer

334. Shakespeare

341. Milton and the Seventeenth Century

Period Courses (Minimum of 6 units, at least 3 in a period preceding the modern), selected from the following:

335. Elizabethan Drama

336. Elizabethan Poetry and Prose

342. The Age of Reason in English Literature

343. The Romantic Movement in English Literature

344. Literature of the Victorian Period

345. History and Development of the English Novel

462. Modern British and American Novels464. Modern British and American Drama

466. Modern British and American Poetry

Electives to complete a minimum of 36 units selected from additional courses in language and composition, period courses, literary criticism, senior seminars, and Comparative Literature. Comparative Literature offerings are listed separately, but count toward an English major.

A program of literary studies gains in perspective through the study of history, sociology, philosophy, and psychology. These fields offer vital lifelines which nourish and deepen understanding of literature. Students of literature are strongly advised to include such courses in their program, particularly in the areas of

philosophy and psychology.

English majors who intend to pursue graduate study are urged to acquire proficiency in at least one foreign language. Note: Freshmen intending to major in English should complete two years of course work in a foreign language, or demonstrate equivalent accomplishment by transfer or by examination.

TEACHING CREDENTIAL REQUIREMENTS

English majors who are also candidates for a teaching credential must take the required professional education courses in English in addition to fulfilling all requirements for the major indicated above.

MINOR IN ENGLISH

Requirements: A total of 21 units.

Lower Division (Maximum of 9 units), including:

221, 222. American Literature, or the equivalent.

Lower Division electives (3 units)

Upper Division (Minimum of 12 units), including:

Language and Composition (Minimum of 3 units), selected from the following:

301. Advanced Composition

303. The Structure of Modern English 490. History of the English Language

Major Author Courses (Minimum of 6 units)

334. Shakespeare

333, Chaucer, or 341, Milton and the Seventeenth Century

Electives (Minimum of 3 units)

MASTER OF ARTS DEGREE IN ENGLISH

The degree of Master of Arts in English requires completion of a minimum of 30 semester units beyond the bachelor's degree. Candidates having fewer than 36 units of undergraduate English normally will be required to take several additional courses to build a full undergraduate major. The 30 units in the graduate program are distributed as follows:

Units in subjects related to English	its in courses restricted to graduate students (500 series) 15 its in specialized upper division courses in English 9
hy; plus y units in hippor division consider sciented in consideration with a	The birs a mile in abbot quastifichtige, seieces in cours

Up to 6 units of the graduate course work may be in independent study. Three of these units may be devoted to a thesis or other written reports and articles,

individually supervised by a faculty member.

The candidate for the Master of Arts degree in English must see a graduate advisor before beginning his program. At that time the particular courses which will comprise his prerequisite 36 units will be selected. All candidates must take a graduate course in the English language, in Shakespeare, and in at least one other major literary figure studied in depth. Foreign language competency, a study in comparative literature or a foreign culture is required. In addition he must take the Graduate Record Examination (Aptitude and Advanced Test in Literature) prior to his admission to Classified Graduate status.*

Also see Procedures in Graduate Study, beginning on page 49.

DEPARTMENT OF FOREIGN LANGUAGES AND LITERATURES

Associate Professors: Feldman, Kline (Chairman), Mathieu.

Assistant Professors: Shapley, Van Ginneken.

Instructor: Peña. Lecturer: Badoux.

The program of the Department of Foreign Languages and Literatures is designed to meet the needs of several types of students, including those who seek a liberal arts education with an emphasis on a foreign language and its literature; those who intend to teach at the elementary, secondary, or college level; those who plan to use foreign languages in professional careers; or those who desire

^{*} See general college requirements, p. 33.

to pursue graduate studies. The program emphasizes high standards of achievement in the practical use of the language, in the study of its literature and its culture, in the mastery of applied linguistics, and in methodology of teaching, the latter acquired in part through apprenticeship.

A student may enroll at any point in the sequence of courses for which his

previous study has prepared him.

MAJOR IN A SINGLE FOREIGN LANGUAGE

Three options are offered: French, German or Spanish.

Requirements: Courses 101, 102, 203, 204, or their equivalents, completed satisfactorily; plus 24 units in upper division courses, including 317 (or equivalent), 431, 441, 451, 461, except that six of these units may be in another field selected with the approval of the advisor, including 6 lower division units in a third language.

Attention is directed to the courses in foreign literatures in translation listed

elsewhere in this catalog under Comparative Literature.

MAJOR IN TWO FOREIGN LANGUAGES

Two options are offered: Romance Languages Major (French and Spanish) and Germanic-Romance Languages Major (German and French or Spanish). A student electing the double major must fulfill all requirements for a Major in a Single Language and, in addition, the requirements for a Minor in Single Language.

MINOR IN A SINGLE LANGUAGE

Requirements: Courses 101, 102, 203, 204, or their equivalents, completed satisfactorily; plus 9 units in upper division courses selected in consultation with the advisor.

CREDENTIAL PROGRAMS

STANDARD TEACHING CREDENTIAL WITH A SPECIALIZATION IN ELEMENTARY TEACHING

Students who are candidates for the Standard Teaching Credential With a Specialization in Elementary Teaching must also complete the professional requirements, including Foreign Languages Education 432.

STANDARD TEACHING CREDENTIAL WITH A SPECIALIZATION IN SECONDARY EDUCATION

The credential program is the same as for the liberal arts major, with the following additional requirements:

Foreign Languages Education 442;

French or German or Spanish Applied Linguistics 466:

plus 6 units in the Major language selected with the approval of the advisor and taken in the senior year or thereafter at the 400 and 500 level.

THE LANGUAGE LABORATORY

Students enrolling in courses 101, 102, 203, 204 are required, in addition to the regular class periods, to practice for the minimum of prescribed time in the Language Laboratory. The 30-station laboratory operates like a library; students may use it at a time most convenient to them, preferably every day in sessions of 15 to 30 minutes. Further details will be announced by each instructor and by the Supervisor of the Language Laboratory.

Students are invited to make use of the collection of literary and cultural recordings in French, German, Russian and Spanish available in the Language Laboratory.

DEPARTMENT OF PHILOSOPHY

Professor: Alamshah (Chairman) Associate Professor: Becker, * Hayner

Instructor: Houlgate

The aim of the department of philosophy is twofold. (1) to present curricular offerings in a manner that will awaken an appreciation for philosophical concerns; delineate the significant contributions made to the history of ideas by the great philosophers; and develop in those who concentrate in the field an appreciable degree of precision in communicating the subject matter of philosophy; (2) to draw attention to the significance of philosophical analysis in areas of vital concern for the life of society.

Course work in philosophy, therefore, has the following objectives: to help students understand their own philosophical concerns; to uncover and to delineate sound methodology for the clarification of philosophical problems; and to prepare students who are seeking higher degrees in philosophy.

BACHELOR OF ARTS DEGREE: PHILOSOPHY MAJOR

Requirements: A total of 36 units, beyond General Education requirements, with the following distribution:

Lower Division (Maximum of 12 units, beyond General Education requirements)

Core Requirements (6 units)

211A. The Classical Schools of Philosophy (3) 211B. The Classical Schools of Philosophy (3)

Electives (6 units)

Note: Students who have taken their lower division work elsewhere will be given credit for equivalent course work.

Upper Division (Minimum of 24 units)

Core Requirements (15 units)

331. History of Philosophy: Rationalism and Empiricism (3)

332. History of Philosophy: Kant and the 19th Century (3)

Plus choice of one of the following:

417A, 417B. Aristotle (3,3)

427A, 427B. Spinoza (3,3) 437A, 437B. James (3,3)

447A, 447B. Plato (3,3)

457A, 457B. Hume (3,3)

467A, 467B. Kant (3,3)

Plus 499. Independent Study (3)

Electives (Minimum of 9 units)

A program in philosophy profits greatly through the study of literary masterpieces, psychology, and the social sciences. Students of philosophy are advised to supplement their studies in philosophy with course work offered in these fields. Philosophy majors are urged to acquire proficiency in a foreign language.

^{*} College Administrative Officer.

MINOR IN PHILOSOPHY

Requirements: A total of 21 units (beyond General Education requirements)

Lower Division (Maximum of 9 units)

Core Requirements (6 units)

211A. The Classical Schools of Philosophy (3)

211B. The Classical Schools of Philosophy (3)

Electives (3)

Upper Division (Minimum of 12 units)

Core Requirements (6 units)

331. History of Philosophy: Rationalism and Empiricism (3)

332. History of Philosophy: Kant and the 19th Century (3)

Electives (6)

DIVISION OF SCIENCE, MATHEMATICS, AND ENGINEERING

Division Chairman: Miles D. McCarthy

The Division provides fundamental instruction basic to the needs of students preparing (1) to pursue graduate and professional training, (2) to teach, and (3)

to seek employment in technical and applied fields.

Students preparing for careers in the health sciences should register with the Chairman of the Pre-medical Committee (membership listed on page 17). The committee will advise students concerning appropriate collegiate majors, pre-professional requirements, and aptitude tests, and professional school admissions procedures.

It is the concern of the faculty that science instruction shall not be circumscribed by limited disciplines, but shall embrace related scientific subject-matter fields as well as liberal arts subjects and foreign language. We hold firmly to the conviction that the trained scientist of today and in the future must be one conversant with the general principles of all scientific disciplines and one adequately prepared in depth in a major field. He must be one who has been nurtured in the development

of ideas, not merely in technical skills.

To qualify for a baccalaureate degree in science or mathematics major programs, students must have a C average in all courses required for the majors including those in the related sciences. A proficiency in one modern foreign language (Russian, German, French) is required. A reading comprehension of a second modern foreign language is strongly recommended for students planning graduate study leading to the Ph.D. degree. This requirement is normally met by completing four semesters of a college foreign language with a C grade or better or by taking a foreign language for two years in high school and two semesters of intermediate language in college with a minimum of a C grade in the college course. Under unusual circumstances the requirement may be met by examination upon approval by the appropriate department chairman. Examinations will be given in October and March of each academic year. For details of examination procedure, apply at Division Office.

No credit toward the major will be allowed for specific major courses in which a grade D is obtained. A placement test will be given to students in the division of science in order to determine whether they are ready to start the calculus.

Non-science major students admitted to the College directly from high school or transfer students with 30 units or less will normally expect to satisfy the college general education natural science requirements for the B.A. degree by completing the following courses:

Consiliration contests and assessment on a street appropriate and action had	Units
Physical Science 201	4
Biology 100	2
Biology 140 or Biology 160	3
	ar grottuti -in ?
Total	9

DEPARTMENT OF BIOLOGICAL SCIENCE

Professors: McCarthy (Chairman), McCleary, Sutton Associate Professors: Brattstrom, Turner Assistant Professors: P. Adams, Rothman, Rudersdorf, Walkington

The Department of Biology offers a program leading to the Bachelor of Arts degree in Biology for students preparing to enter graduate and professional schools, for those preparing to teach, and for those preparing for careers in industry and government service.

It is the conviction of the faculty in Biology that the purposes of all these students can best be served by building their curricula on a core of courses fundamental to the science of biology. This core curriculum includes biological prin-

ciples, genetics, microbiology, and physiology.

In considering the curricula beyond this core of subjects, the faculty in Biology has agreed that the interests and goals of individual students can best be satisfied through individual counseling rather than through prescribed programs. After discussion with their advisors, students will elect those upper division courses which will satisfy their individual interests and professional goals. Eight units of electives must be in one area of interest (e.g., biology, botany, microbiology, or zoology) and four units in another area.

Advanced students will be permitted to enroll in Biological Science 400, Undergraduate Problems in Biology. All upper division students are expected to attend

the departmental seminars.

.... Distata

The Department of Biology also offers a curriculum for students majoring in other fields who wish to minor in Biology.

BACHELOR OF ARTS DEGREE IN BIOLOGICAL SCIENCE

One hundred twenty-four units including general education (See page 45), foreign language * (See divisional requirement page 101), 33 units in biology courses, and supporting courses in physical sciences and mathematics. The supporting courses must include one year of inorganic college chemistry including qualitative analysis with laboratory, one semester of organic chemistry with laboratory, one semester of college mathematics, and one year of college physics with laboratory.**

Minimum Course Requirements for the Major †

Biological Science	Units
100 Principles of Biology	2
140 Principles of Botany	3
160 Principles of Zoology	company to a shared or

* Transfer students should have completed the foreign language requirement and as many of

*Transfer students should have completed the foreign language requirement and as many of the general education courses as possible prior to admission. However, uncompleted units may be satisfied while the upper division work is in progress by concurrent enrollment at a junior college or with appropriate courses offered at the College.

**Those students seeking careers in biology at the Ph.D. level and careers in medicine should take a full year of organic chemistry, a year of analytical geometry and calculus, Physics 221 and 222, and quantitative analysis with laboratory. Those students seeking an elementary credential may substitute Physical Science 201 and Geology 100A for college physics.

† Substitutions in the program may be made for transfer students and others upon the recommendation of the adviser and the approval of the Department Chairman.

Science, Mathematics, and Engineering

Upper Division	PHA 96 SHIPMAN	
The minimum renormants for the B	Units	
311 General Microbiology	4 10	
312 Genetics Lecture 412 and 412L Cell Physiology	to property and the self-self-self-self-self-self-self-self-	
412 and 412L Cell Physiology	microbiology or zoology, in desi	
444 Plant Physiology	and -a standard of temporal and and	
Electives-14 units, of which 4	must be outside area of	
THE PROPERTY OF THE PROPERTY O	(h) promping deland and on deve	
	organization and on to biet 25 to	25
	o the money possessence has	
multi-maties, and biology they the	General Adoption, from Champs	33
CEARTHAINE TAINTE AND THE CONTRACTOR OF THE PROPERTY OF	e Freshman and Sophomore Years	orugi 4
First Semester (Freshman) Units	Second Semester (Freshman	THE TALK W
Engl. 101 Comp. & World Lit. 3	Engl. 102 World Lit. & Comp.	
Chem. 101A General Chem. 4	Chem. 101B General Chem.	
Bio. Sci. 100-Prin. of Biol. 2	Bio. Sci. 140 or 160	
Bio. Sci. 140-Prin. of Botany or	Speech 101-Fund. of Speech	3
Bio. Sci. 160-Prin. of Zool 3	Pol. Sci. 100-American Gov	
Hist. 170A or 170B-U.S. Hist. 3	P.EPhys. Educ. Activity	1/2
P.EPhys. Educ. Activity ½	degree study gian name same	OFF
an army sum said aming the days the		161/2
151/2		
Third Semester (Sophomore)	Fourth Semester (Sophomor	e)
General College Physics or	General College Physics or	
For. Lang.—Fundamentals4	For. Lang.—Fundamentals	4
Math. 150A—Anal. Geom. & Calc. 4	Math. 150B-Anal. Geom. & Cal	
Chem. 301A—Org. Chem. 4	Bio. Sci.—Upper Division Electiv	
Bio. Sci. 311—Microbiology 4	Social Science Elective	
P.E.—Phys. Educ. Activity 1/2	P.E.—Phys. Educ. Activity	
Lie.—I hys. Educ. Activity	F.E.—Filys. Educ. Activity	/2
16½		151/2
Minimum Requirements for	Biological Science Minor †	
Piological C :		
100, 140, 160 Principles	DEPARTMENT C	
424 Evolution	(Charman)	
424 Evolution	Pure exercise and another and another	
312 Genetics	to observe to bomining strong the page	
311 General Microbiology	4	
361 Mammalian Anatomy and Physiol		
412-412L Cell Physiology or		
412-412L Cell Physiology or	The state of the s	
444 Plant Physiology	-	
Biological Science Elective	4	

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[†] Substitutions in the program may be made for transfer students and others upon the recommendation of the adviser and the approval of the Department Chairman.

MASTER OF ARTS IN BIOLOGY

General Characteristics

The program for this degree is based on the assumption that modern science necessitates broad preparation through the master's level of training. It permits breadth of preparation and at the same time concentration in an area such as botany, microbiology or zoology. In design it offers sufficient breadth and depth to strengthen the student's academic understanding and improve his competence for (a) advanced graduate work toward the doctoral degree in biological science, (b) teaching at all levels—elementary, secondary, and ignior college, (c) technological work in the health sciences, (d) participating in research programs, (e) entering the field of public health service, and (f) participating in various field service and conservation positions with both the state and national governments.

Prerequisites

Prerequisite to entering the program is a pertinent undergraduate major in biology with at least a GPA of 3.0. Satisfactory scores on The Aptitude Test of The Graduate Record Examination are also required. Students may be admitted provisionally with limited subject or grade deficiencies, but such deficiencies must be removed by completing additional courses, selected in conference with the advisor, with at least a B average.

Program of Study

The degree study plan must include 30 units of advisor-approved graduate work, at least 12 of which must be at the 500 level. All study plans must include Biological Science 500 (Laboratory and Field Problems in Biology), and Biological Science 501 (Thesis, 3–6 units), and at least one departmental seminar. Twelve units must be distributed between *two* of the following areas: Biology, botany, microbiology, or zoology. An added 6 units must be outside the two areas chosen. Further electives may be possible. Required is a thesis or a published paper, or a paper accepted for publication, acceptable to the advisor and committee, covering a field or laboratory research problem. A final oral examination on his research is also required.

For more detailed information or advisement, students should communicate with the Chairman of the Biological Science Department, or the Graduate Coordinator of the Biological Science Department.

Also see Procedures in Graduate Study, beginning on page 49.

DEPARTMENT OF CHEMISTRY

Professor: Bryden (Chairman)

Assistant Professors: Montana, Pan, Shields, Spenger

The curriculum is planned to provide thorough instruction in the basic principles and concepts of chemistry for students who will (1) continue on to graduate work in chemistry; (2) teach in the science programs of secondary schools; (3) seek employment in industry or government; or (4) pursue a chemistry minor of fundamental courses in chemistry in support of other areas such as physics and biology.

Science, Mathematics, and Engineering

BACHELOR OF ARTS IN CHEMISTRY

The minimum requirments for the B.A. degree with a major in chemistry are the following: *

	Units	
Required units in chemistry	37	
Elective units in chemistry		
Total units in chemistry	46	46
Required units in physics, mathematics, and biology	31	31
Total units in science and mathematics		77
General Education units, not including 12 units of physical mathematics, and biology (see the General Education requipage 45)	l science, iirements,	38
Undesignated units	100-Ar	9
Total units for the B.A. degree in chemistry		124
The required courses in Science and Mathematics are as follo	ws:	
IEMISTRY:		Units
General Chemistry	09-001 3	10
Quantitative Chemistry		4
Organic Chemistry		
Physical Chemistry		
Physical Chemistry Laboratory		
Advanced Inorganic Chemistry		
Chemical Literature	2 dinaval	1
Total units	CHT_185	37
	tion requi	remer
Physics, Mathematics, and Biology (satisfies the General Educat Dephysical science, mathematics, and biology):		
n physical science, mathematics, and biology):	12	
Physics, Mathematics, and Biology (satisfies the General Education physical science, mathematics, and biology): Physics Mathematics		

Proficiency in one modern foreign language (Russian, German, French) is required. (See Divisional requirement, page 101.)

Total units

MINOR IN CHEMISTRY

A minimum of 24 acceptable units of chemistry, including Organic Chemistry (8) and Physical Chemistry (6) are required for a chemistry minor.

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^{*} Substitutions in the program may be made upon approval of the department chairman.

* Chemistry majors in pre-medical, pre-dental, and secondary teaching credential programs may fulfill this requirement, with their advisor's approval, by taking only 8 units of organic chemistry.

Suggested Eight Semester Program for a Major in Chemistry

2099001011 3111 00111100			
First Semester (Freshman)	Inits	Second Semester (Freshman)	Inits
Chem. 101A-Gen. Chem.	5	Chem. 101B-Gen. Chem.	5
Math. 150A-Anal. Geo. & Calc.	4	Math. 150B-Anal. Geo. & Calc	4
Eng. 101-Composition & Lit.	3	Physics 221-Fundamental Physics	4
Hist. 170A or 170B-U.S. History	3	Eng. 102-Lit. & Composition	3
P.EPhys. Ed. Activity	1/2	P.EPhys. Ed. Activity	1/2
	15 1/2		161/2
Third Semester (Sophomore)	13 72	Fourth Semester (Sophomore)	10/2
	2		3
Chem. 301A—Org. Chem.	3	Chem. 301B—Org. Chem.	2
Chem. 303A—Org. Chem. Lab. Math. 250A—Inter. Calc.	2	Chem. 303B—Org. Chem. Lab. Chem. 212—Ouant. Chem.	4
Physics 222—Fundamental Physics	5	Math. 250B—Inter. Calc.	3
Pol. Sci. 100—Amer. Government.	3	Physics 223—Fundamental Physics	3
P.E.—Phys. Ed. Activity	1/2	P.E.—Phys. Ed. Activity	- 1/2
1.E.—I hys. Ed. Redvity		1.L.—I Hys. Ed. Heavity	-12
	16½		15 1/2
Fifth Semester (Junior)		Sixth Semester (Junior)	
Chem. 371A-Physical Chem.	3	Chem. 371B-Physical Chem.	3
Bio. Sci. 100-Prin. of Biology	2	Bio. Sci. 140 or	
For. Lang. 101-Mod. For. Lang.	4	160-Botany or Zoology	3
Gen. EdGen. Ed. Courses	7	Elective in Chem.	3
		For. Lang. 102-Mod. For. Lang.	4
	16	Gen. EdGen. Ed Course	3
much harden of an area of the second		Chemical Librardes	16
Seventh Semester (Senior)		Eighth Semester (Senior)	
Chem. 441-Phys. Chem. Lab.	3	Chem. 425—Adv. Inorg. Chem.	3
Chem. 491—Chem. Literature	1	Elective in Chem.	3 3 3
Elective in Chem.	3	For. Lang. 204-Inter. For. Lang.	3
For. Lang. 203-Inter. For. Lang.	3	Gen. EdGen. Ed. Courses	7
Gen. Ed.—Gen. Ed. Courses	6		_
	-		16
	16		

GEOLOGY

No undergraduate major is offered. Beginning work in geology is offered to provide a foundation for students wishing to take advanced work in geology and for those students wishing to combine this area with others such as geobiology, geochemistry, and geophysics. The beginning work in this area is also appropriate to majors in geography and in fulfilling the general education interest of many students as part of their natural science requirement.

DEPARTMENT OF MATHEMATICS

Professors: Ames (Chairman), Lay

Associate Professors: Gilbert, O'Toole, Stiel Assistant Professors: Langberg, Sandberg

Instructor: Qualls

BACHELOR OF ARTS DEGREE IN MATHEMATICS

The program of studies in mathematics offers courses stressing the understanding of mathematical concepts and the axiomatic approach. A sufficient variety of courses is given to satisfy the needs of:

Science, Mathematics, and Engineering

(1) The proficient student aiming toward graduate study,

(2) The student planning the use of mathematics in a career in industry and government service,

(3) Preprofessional students in other science areas,

(4) The prospective elementary and secondary teacher. (See special programs of study below.)

In addition to mathematics, the major candidates will be required to pursue a year of general college physics with a calculus prerequisite. Proficiency in one modern foreign language (Russian, German, French) is required.

For a major in mathematics this language requirement is met by completing four semesters of a college foreign language with a C grade or better or by taking a foreign language for two years in high school and two semesters of intermediate language in college with a minimum of a C grade in the college course.

No credit toward the major will be allowed for specific major courses in which

a grade of D is obtained.

A placement test is given to students in the division of science and mathematics in order to determine whether they are ready to start the calculus.

Major Program in Mathematic	Say or (b) here years h
Required Courses	Un
Analytic Geometry and Calculus	MARINGHAN OF CHUISE A
Intermediate Calculus	THE CELL LABOUR LOSSON II
Linear Algebra	
Modern Algebra	THE THE PARTY OF T
Advanced Calculus	POSTARA HI TOPERATURETEN
Topology	1 310 SHEPEN ESCURIS S
Complex Analysis	Landa services La
Real Analysis	
Abstract Algebra	Division
Differential Geometry	seeal Chermenry (sanish
sometry and Caleman (Stringer Coneral Addressing	pemanes: Analytic sie
Phys. 22 Eundamental Physics	Anathematics requirement

Minor Program in Mathematics

A Mathematics Minor shall consist of 20 units of course work selected from the mathematics courses offered by the Department. Exclusive of Mathematics 100A-100B and Mathematics 120, each course to be completed with a grade of C or better.

Major Program in Mathematics for Teacher Education For Elementary or Secondary Education

Appropriate the programme of the program	Units
Math. Ed. 100A-B-Fundamental Concepts of Mathematics-Arithmetic Math. 150A-B-Analytic Geometry and Calculus	6
Math. 250A-B—Intermediate Calculus	6
Math. 291—Linear Algebra	3
Math. Ed. 300—Fundamental Concepts of Mathematics-Algebra	3
Math. Ed. 301—Fundamental Concepts of Mathematics-Geometry	3
Math. 320—Projective Geometry	3
Watti. 330-Number Theory	3
Matthe 333 A - Propanility and Warnemarical Statistics	3
Electives in Mathematics, 300 courses or higher	9
(conting introduction)	47

Proficiency in one modern foreign language is required. See requirement on page 101.

Minor Program in Mathematics for Teacher Education

(a) For Secondary Education this minor is the same as the Minor Program in

Mathematics at the top of this page.

(b) For Elementary Education the minor shall consist of 20 units of course work in mathematics selected from the mathematics course listing, a grade of C or better being required in each course.

DEPARTMENT OF PHYSICS

Professors: Adams, R. (Chairman), Blend

Associate Professor: Dittman

BACHELOR OF ARTS DEGREE IN PHYSICS

The program leading to the Bachelor of Arts degree in physics provides the fundamental instruction basic to the needs of the student who is preparing (1) to teach in elementary or secondary schools, (2) to undertake graduate work in physics or related fields, (3) to pursue additional collegiate studies leading to professional degrees in dentistry, law, medicine, nursing, and other professional, related areas, and (4) to seek employment in technical and applied fields.

The faculty is concerned that the student of physics shall have adequate education in other liberal arts subjects, including foreign language. Through curriculum requirements and through elective subjects, the physics student will be expected to have a broad education in traditional liberal arts subjects, the several sciences, and mathematics. In particular, the student is urged to make his selections of

elective courses outside the field of physics.

MINIMUM DEPARTMENTAL REQUIREMENTS FOR DEGREE *

Math	eral Chemistry (satisfies General Education physical science requirem nematics: Analytic Geometry and Calculus (satisfies General Educa- nathematics requirement)	ation 14
	lamental Physics	
	Proficiency in one language required. (See Divisional requirement, 101.)	STATE OF THE PARTY
Upper	Division Physics **	
431.	Electricity and Magnetism	3 units
441.	Analytical Mechanics	3 units
411.	Theory of Wave Motion	
453.	Nuclear Physics or 451. Modern Physics	3 units
416.	Thermodynamics and Introduction to Kinetic Theory	3 units
	Introduction to Quantum Physics	3 units
381.	Advanced Physics Laboratory (electrical measurements and elec- tronics)	3 units
382.	Advanced Physics Laboratory (mechanics, acoustics, physical optics, atomic spectra)	3 units
481.	Advanced Physics Laboratory (atomic and nuclear physics)	3 units
482.	Advanced Physics Laboratory (selected experiments in classical and modern physics)	3 units
	Total	30 units

^{*}Substitutions in the program may be made upon the approval of the department chairman.

**Theory courses will normally be taken in the order of listing. Laboratory courses will normally be taken in numerical order of course number.

Required Mathematics

Mathematics courses in addition to Analytic Geometry and Calculus 9 units

MINOR IN PHYSICS

A minimum of 20 units of physics are required for a minor. These shall include 12 units of lower division physics (or equivalent as determined by the department of physics), and a minimum of 8 units of upper division physics, including a minimum of 2 units of advanced physics laboratory.

Suggested Eight-Semester Program for Major in Physics	
Semester 1. Freshman	Units
Math 150 A. Analytic Geometry and Calculus	4
Engl. 101. Composition and World Literature For. Lang. 101. Fundamental Russian, German, or French General Ed. Any required General Education course	4
General Ed. Any required General Education course	3
P. E. Any Physical Education activity course.	1/2
Total Sauca nousanda kannas bannas ka	14½
Semester 2. Freshman	
Math 150B. Analytic Geometry and Calculus	4
Engl 102. World Literature and Composition	4 3
Engl 102. World Literature and Composition For. Lang. 102 Fundamental Russian, German, or French	4
Phys. 221. Fundamental Physics	5
Phys. 221. Fundamental Physics P. E. Any Physical Education activity course	1/2
Total	16½
Semester 3. Sophomore	
Math 250 A. Intermediate Calculus	3
Phys 222. Fundamental Physics	5
Phys 222. Fundamental Physics	3
Chem 101 A. General Chemistry	5
P. E. Any Physical Education activity course	½
Total Water House to Head to the Action of the Acti	16½
Semester 4. Sophomore	
Math 250 B. Intermediate Calculus	3
Phys 223. Fundamental Physics	3
For. Lang. Intermediate Russian, German, or French	3
Chem 101 B. General Chemistry	5
Biol 100. Principles of Biology	
P. E. Any Physical Education activity course	1/2
Total	16½

his to teach in the areas of science and mathematics at the elementary

Semester 5. Junior	
Math 291. Linear Algebra	3
Phys 431. Electricity and Magnetism	3
Phys 381. Advanced Physics Laboratory	3
General Ed. Any required General Education course	
General Ed. Any required General Education course	3 51
Biol. 160. Principles of Zoology, or Bot. 140. Principles of Botany	mis ed 3 to
Bot. 140. Principles of Botany	
Total	18
Semester 6. Junior	Units
Math 350 A. Advanced Calculus	3
Phys 441. Analytical Mechanics	3
Phys 382. Advanced Physics Laboratory	3
General Ed. Any required General Education course	3
General Ed. Any required General Education course	3
General Ed. Any required General Education course	3
L VLas	18
Semester 7. Senior	
Math 350 B. Advanced Calculus	3
Phys 411. Theory of Wave Motion	3
Phys 453. Nuclear Physics (or Phys 451. Modern Physics) Phys 481. Advanced Physics Laboratory General Ed. Any required General Education course	3
Phys 481. Advanced Physics Laboratory	3
General Ed. Any required General Education course	3
Total	15
(Honor students may add Physics 491. Senior Report (1).)	
Semester 8. Senior	
Phys 416. Thermodynamics and Introduction to Kinetic Theory	3
Phys 455. Introduction to Quantum Physics.	3
Phys 482. Advanced Physics Laboratory	3
General Ed. Any required General Education course	3
Elective	
451 Enemon and Magnetin	
Total (Honor students may add Physics 492. Senior Report (2).)	15
(Flohor students may and Physics 492. Senior Report (2).)	

DEPARTMENT OF SCIENCE AND MATHEMATICS EDUCATION

Professor: Lay Associate Professor: Turner (Chairman)

The Department of Science and Mathematics Education is designed to prepare students to teach in the areas of science and mathematics at the elementary and secondary levels, to provide guidance for experienced teachers in the study and use of educational practices developed for the teaching of sciences and mathematics and to help teachers develop original ideas in their areas of specialization.

The offerings of this department include basic professional training courses required for teacher certification, advanced coursework in science and mathematics education, and certain academic content offerings designed especially for teacher preparation.

The department does not offer any degree program at this time.

DIVISION OF SOCIAL SCIENCES

Division Chairman: Giles T. Brown

The division of Social Sciences offers courses in the fields of Anthropology, Geography, History, Political Science, Psychology and Sociology. In addition, it accepts certain courses in Economics toward the degree of Master of Arts in preparing for graduate study. The offerings of the division are designed to provide a better understanding of man's behavior past and present, of the historical, social, environmental forces that operate in the world, and of the significant problems of the present day.

The following Master's Degrees are offered by the Division:

Master of Arts in the Social Sciences

Master of Arts in History

Master of Arts in Political Science

The following undergraduate majors and teaching minors are offered by the Division:

Major in Anthropology Major in Geography Major in History Major in Political Science Major in Psychology Major in Sociology Teaching Minor in Anthropology Teaching Minor in Geography Teaching Minor in History Teaching Minor in Political Science Teaching Minor in Sociology

Any of the above majors may be used by a student seeking an elementary or secondary teaching credential. However, a secondary credential authorizes a person to teach only in the subject major and minor. An elementary credential authorizes a person to teach all subjects.

MASTER OF ARTS IN THE SOCIAL SCIENCES

The Master of Arts degree in Social Sciences allows a student to pursue advanced work in two or three related fields.* Selection may be made from the following: Economics, Geography, History, Political Science, Psychology, and Sociology. The thirty (30) units approved by the graduate adviser are to be arranged in one of the following patterns:

Pattern A (two fields)	First field				units
	Second field	12 o	r 15		units
		and the same	-		
		30	30		units
Pattern B (three fields)	First field	15 o	r 12	or 12	units
	Second field	9 0	r 12	or 9	units
	Third field	6 0	r 6	or 9	units
		th	100-0	DEC	
		30	30	30	units

^{*} Consult adviser relative to prerequisites.

Specific requirements include:

At least twelve (12) units of graduate courses (500 level)

An upper division or graduate level course in Research Methods and Bibliography in one of the Social Sciences

Thesis or project

Oral examination on the thesis or project and on the courses offered for the degree

Satisfactory completion of the Aptitude Test of the Graduate Record Examination

The Area Test of the Graduate Record Examination may be required.

There is no foreign language requirement, but certain fields may require work in Statistics. An undergraduate major in social sciences, or 24 units of upper division courses in social sciences (approved by the advisor) with a GPA of at least 3.0 is required. The graduate adviser will be selected from the first field. All work must be completed within five years from the time graduate classified standing has been attained. Prior to the appointment of a graduate adviser, the following steps must be completed:

1. Admission to the college as an unclassified graduate student;

Filing in the Office of Admissions of two official sets of transcripts of all collegiate and graduate work; and

3. Submission of satisfactory results of the Graduate Record Examination(s).

In consultation with his graduate adviser, the student will develop a proposed Study Plan. When approved by his graduate adviser and pursued satisfactorily the programmed work can lead to the Master's degree, subject to the completion of all other requirements for the degree.

Also see Procedures in Graduate Study, beginning on page 49.

DEPARTMENT OF ANTHROPOLOGY

Professor: Untereiner (Chairman)

BACHELOR OF ARTS IN ANTHROPOLOGY

The major in Anthropology is designed for students desiring a broad generalist background, students preparing to become teachers of social sicences, and students preparing for graduate work in anthropology and in advanced areal and international specializations.

Unit Requirements

The required minimum for the major is 42 units, in addition to those taken for the general education requirement, distributed as follows:

Courses in Anthropology

Thirty units must be taken in Anthropology, 24 in upper division courses. Anthropology 201A-B, 301, 401, 410, and 480 are required. Two courses are required from areal offerings in the field: Anthropology 321, 325, or 328. Two courses are required from theoretical/institutional courses in the field: Anthropology 415, 421, or 425.

Related Courses

Twelve upper division units are to be taken in the related social science fields of Economics, Geography, History, Political Science, Sociology, and Psychology, to be approved by the major adviser.

Minimum units

Minimum total units for the major

Students considering advanced professional careers in research, teaching, or applications of anthropology are urged to explore and sample widely from course offerings in the other social sciences, and in the natural and biological sciences and the humanities. The following suggestions may help the student to choose courses that may broaden his interests and diversify and develop his skills in working toward his own career objectives.

(a) Courses suggested for preparation for graduate study in Anthropology and careers in teaching or research. Anthropology 201A-B, 301, 321, 325, or 328, 401, 410, 415, 421 or 425, 480; Art 100, 101, 111, 201A-B, 402, 411, 421; Biological Science 100, 140 or 160, 201, 312, 361, 401, 424, 463, 465, 471; Chemistry 101A-B: Communication 333, 401; Comparative Literature 312, 315, 375, 425; Drama 271, 473; Economics 200, 405, 431; Education, Found. 301, 403; English 201, 451, 490; Geography 111, 121, 131, 343; History 110A-B, 300, 301, 350A-B, 399, 412, 501, 505, 590; Management 341, 544; Mathematics 335A-B; Music 100, 101, 350, 351A-B; Philosophy 110, 210, 211B, 310, 311, 407, 450, 451, 460; Physical Science 201; Political Science 306, 341, 342, 440, 461; Psychology 101, 161, 302, 331, 341, 351, 408, 412, 437; Quantitative Methods 364; Sociology 201, 202, 331A-B, 341, 465, 473, 477, 480, 481, 561; Speech 101, 231A-B, 341.

404, 436; a reading knowledge of at least one foreign language.

(b) Courses suggested for general careers in industry or government service: Anthropology 201A-B, 301, 401, 410, 415, 425; Art 100, 101, 111, 201A-B, 402; Biology 100, 160, 424; Chemistry 101A-B; Communication 333, 361, 401, 425; Comparative Literature 312, 315; Drama 271, 272, 473, 475B; Economics 100, 200, 201, 322, 401, 402; Education Fund. 301, 312; English 201, 451; Geography 111, 121, 333, 432, 471; History 110A-B, 170A-B, 399, 474, 475, 476; Management 341, 343, 544; Mathematics 335A-B; Music 100, 101, 350; Philosophy 210, 211B, 250, 310, 450, 451; Physical Science 201; Political Science 101, 306, 320, 340, 411, 414; Psychology 101, 161, 331, 351, 391; Quantitative Methods 364, 560; Sociology 201, 202, 271, 331A-B, 371, 436, 465, 470, 473, 477; Speech 101, 231A-B, 404, 424.

(c) Courses suggested for careers in areal and international specializations: Anthropology 201A-B, 301, 325, 328, 401, 410, 415; Art 201A-B, 402, 411, 421; Biology 100, 140, 201, 401, 424, 465; Chemistry 101A-B; Communication 333, 361, 401, 426; Comparative Literature 375, 425; Drama 475A-B; Economics 200, 322, 403, 431; Education Fund. 301, 402; English 451; Geography 111, 121, 131, 333, 433, 434, 435, 436, 481; History 110A-B, 300, 301, 350A-B, 429, 434B, 461, 485B; Management 341; Music 351A-B; Philosophy 110, 451; Political Science 101, 331, 340, 351, 453, 454, 460, 461; Psychology 101; Sociology

201, 341, 348, 361, 371, 436, 477; Speech 101, 231A-B, 341.

Teaching Minor in Anthropology

The minor in Anthropology is intended as a second field for persons completing a major in another discipline in preparation for a teaching credential. Twenty-one units must be taken in Anthropology, 15 in upper division couress. Anthropology 201A-B and 301 are required. Two courses must be selected from areal offerings in the field: Anthropology 321, 325 or 328. One course must be selected from theoretical/institutional courses in the field: Anthropology 410, 415, 421, or 425. One course must be selected from Anthropology 401 or 480.

DEPARTMENT OF GEOGRAPHY

Associate Professor: Earick (Chairman) Assistant Professors: Helin, Reith, Sutton

BACHELOR OF ARTS IN GEOGRAPHY

The major in Geography is designed to contribute to a broad, liberal education and to fulfill the requirements of sound, professional preparation. This basic program emphasizes the relationship of man's complex cultural patterns to the earth's physical foundation. It also provides students with a practical base for intensive

work in one of the several fields of Geography at the graduate level.

Depending on individual interest, students may plan the major program to emphasize either physical or cultural Geography. In planning a program the student should keep his professional objective in mind. For example, those students intending to enter business or commercial fields should elect related courses in Business Administration, Economics or Statistics and those planning a career in government should elect related courses in Economics, History, Political Science, Sociology, and Statistics.

Unit Requirements

The major in Geography requires the completion of a minimum of 48 units of course work. These units are in addition to those which have been used to meet the general education requirement. It is suggested that students meet the general education requirements by taking courses outside the department. Unit requirements are as follows:

Geography Courses

As many as 12 units are acceptable from lower division offerings. Minimum basic requirements are as follows:

Required of all majors: Geography 111, 121, 323, 490	12
Selected from Geography 312, 323, 353	
Selected from Geography 333, 383, 471, 481	6
Electives	12
	C Zaranya - 1
Minimum of	30

Related Courses

The student is to select, with the advice and consent of his advisor, at least
12 units of work in a field or fields supporting his interest in Geography 12

Total

Total

Students intending to take graduate work in Geography should acquire a reading knowledge of at least one modern foreign language.

TEACHING MINOR IN GEOGRAPHY

The minor in Geography is intended as a second field for persons completing a major in another discipline in preparation for a teaching credential. It is designed to give a basic understanding of earth science and the geographic relationships helpful to the classroom teacher. The program gives a balance between the physical and social sciences.

Required Courses

Geography 111, 121 and 343 One course selected from: Geography 312, 323 and 353 One course selected from: Geography 333, 383, 471 and 481 Two courses selected from: Geography 363, 432, 433, 434, 435, and 436 and 438. Minimum units required....

DEPARTMENT OF HISTORY

Professors: Brown (Chairman), Langsdorf, * Povlovich Associate Professors: Beck, de Graaf, Toy,* Unterberger

Assistant Professors: Bellot, Etue, Feldman, Giacumakis, Newby, Sailor, Williams

BACHELOR OF ARTS IN HISTORY

The undergraduate major in History is designed to provide an understanding of the present through a careful study of the past. This major may be pursued to fulfill various professional and cultural objectives common to a liberal arts program. It serves, especially, as a preparation for teaching, law, government, and other public services, and as the foundation for advanced study at the graduate level.

The major is composed of a minimum of 24 units in the upper division, plus the basic courses in World Civilizations (History 110A-110B) and United States History (History 170A-170B). The basic courses may also be used to meet general education requirements. Students majoring in History are encouraged to include in their lower division programs some work in such fields as Anthropology, Economics, Geography, Literature, Philosophy, Political Science and Sociology.

Students intending to do graduate work in History should acquire a reading knowledge of at least one foreign language appropriate to the pursuit of advanced

research in a field of History.

The twenty-four (24) units of upper division courses required for the major must include:

History 399: Historiography (3 units) Six (6) units in United States History

Six (6) units in European History (from ancient Greece to modern times)

Six (6) units in the History of Asia, Africa, and Latin America

TEACHING MINOR IN HISTORY

The teaching minor in History is composed of at least twenty (20) units in History exclusive of the general education requirements.

MASTER OF ARTS IN HISTORY

The program of studies leading to the Master of Arts Degree in History is composed of thirty (30) units approved by the graduate adviser.** Fifteen (15) units of graduate courses (500 level) must be taken including:

History 501, Seminar in the Content and Method of History (3 units);

History 590, History and Historians (3 units); and

History 591, Thesis (3 to 6 units)

Other course requirements include six (6) units in upper division or graduate work outside the History Department but related to the study pattern.

College Administrative Officer.

Consult adviser relative to prerequisites.

In addition, a reading knowledge of an appropriate foreign language and the completion of the Aptitude Test and the Advanced Test in History of the Graduate Record Examination are required. Prerequisite to this master's degree is an undergraduate major in History with at least a GPA of 3.0 in upper division history courses. An oral examination on the thesis and course work offered for the degree will be given. Prior to the appointment of an official graduate adviser, the following steps must be completed:

1. Admission to the college as an unclassified graduate student;

Filing in the Office of Admissions of two official sets of transcripts of all collegiate and graduate work; and

3. Submission of satisfactory results of the Graduate Record Examination.

In consultation with his graduate adviser, the student will develop a proposed Study Plan. When approved by his graduate adviser and pursued satisfactorily the programmed work can lead to the Master's degree, subject to the completion of all other requirements for the degree.

Also see Procedures in Gradute Study, beginning on page 49.

DEPARTMENT OF POLITICAL SCIENCE

Professors: Hyink,* Mason (Chairman), Richardson Assistant Professors: Ashley, Bell, Cook, Foster, Kerschner

BACHELOR OF ARTS IN POLITICAL SCIENCE

The undergraduate major in Political Science prepares students for teaching, government employment on the local, state and national level, Foreign Service, graduate work in Political Science, law school, or leadership in civic and political activities. Political Science is also of value to prospective special librarians and journalists.

Unit and Course Requirements

The major consists of 36 units in Political Science of which at least 24 units must be in the upper division, plus 12 units in related departments taken with the approval of the adviser. These units are in addition to those meeting the general education requirements. Prospective majors are encouraged to take courses in Economics, Geography, History, Psychology, and Sociology.

All majors are required to take:

(1) Political Science 100, or Political Science 101 and 311;

(2) Political Science 306; and

(3) at least one course from each of the following Groups.

Political Science Courses

In each Group, the courses marked with (†) should be taken first.

Political Theory

†341 Fundamental Principles of Political Theory

† 342 Specific Problems in Political Theory

440 Recent Political Thought

442 American Political Thought

443 Political Theories of Communist States

^{*} College Administrative Officer.

Comparative Government

- Governments and Politics of Major Powers + 331
 - Government and Politics of Great Britain 432
 - Government and Politics of Soviet Russia 433
 - 434 Government and Politics of France
 - Government and Politics of Germany 435
 - Government and Politics of Developing Societies 436
 - Political Theories of Communist States 443
 - Foreign Policy Formulation 453

International Relations

- International Relations + 351
 - Problems in International Relations 451
 - 452 American Diplomacy
 - Foreign Policy Formulation 453
 - The Soviet Union in World Affairs 454
 - 460 International Law
 - The United Nations and Other Public International Organizations 461
 - The International Relations and Problems of Latin America 463

Public Administration

- + 311 State and Local Government
- Introduction to Public Administration + 320
 - 416 The American Presidency
 - Local Government and Administration 420
 - Government Finance Administration 421
 - Public Personnel Administration 422
 - 423 City Planning
 - Regional Planning 424
 - Government Organization and Management 426
 - 429 Government Internship

American Politics

- + 311
- State and Local Government
 Political Parties and Pressure Groups + 312
 - The Judicial Process 411
 - 413
 - Constitutional Law
 The Legislative Process 414
 - Public Opinion and Political Behavior 415
 - The American Presidency 416
 - American Political Thought 442

Public Law

- +411 The Judicial Process
 - 413 Constitutional Law
 - 432 Government and Politics of Great Britain
 - 443 Political Theories of Communist States
 - 460 International Law

The Department has no rigid concentration requirements.

Each student will be assigned to a member of the Department for individual guidance and advice designed to prepare the student for his educational and pro-

fessional objectives. Students planning on a career in the Foreign Service are encouraged to take their elective units in American culture, geography, and history. Proficiency in a foreign language is strongly recommended for students planning on graduate work or the Foreign Service. A course in Statistics is advisable for others.

The Public Administration program is designed to prepare students for public service careers with local, state and federal units of government. The program also provides the basis for graduate work for those interested in advanced degrees. Students, in addition to taking the essential courses, will have numerous opportunities to study, observe, and serve as interns in governmental agencies in the area.

The pre-Law student may work out an individual program in consultation with his adviser to meet the specific requirements for admission to the law school of his choice. Courses in related fields may include work in Anthropology, Economics, History, Psychology, and Sociology; also in accounting and report writing.

TEACHING MINOR IN POLITICAL SCIENCE

The teaching minor is composed of 21 units of Political Science, in addition to those meeting the general education requirements. All minors are required to take three courses from any one of the Groups listed above.

MASTER OF ARTS IN POLITICAL SCIENCE

This degree is planned for the professional improvement of high school and junior college teachers, for government employees on the local, state, and national levels (including personnel in the military service), for students interested in advanced graduate work toward the doctoral degree in Political Science, and for individuals interested in community and political leadership. It offers concentrations in:

American Government, International Relations, Public Administration.

Prerequisites

Students desiring to enter the program must have an undergraduate major in Political Science equivalent to that required by the College, with a GPA of 3.0 or better in upper division courses of the major. Each student's background and record will be carefully evaluated. Satisfactory scores on the Aptitude Test and Advanced Test in Political Science of the Graduate Record Examination are required. Students concentrating in International Affairs must demonstrate a reading knowledge of an appropriate foreign language. While students may be admitted with limited subject or grade deficiences, these must be removed by completing adviser-approved courses in addition to those required for the degree, with at least a B average in political science courses.

Program of Study

Thirty units of adviser-approved graduate courses are required on the degree study plan. Of these, 15 will be in the area of concentration, 9 in other courses to broaden the background in Political Science, and 6 units in supportive courses in other social sciences or related fields. At least 15 units must be in 500 level courses. All programs will include courses in Political Thought and Constitutional Law (if not taken previously), and Political Science 306 (Research Methods in Political Science). Three to six units may be granted for a project or thesis. A final comprehensive examination is required.

Prior to the appointment of a graduate adviser, the following steps must be completed:

1. Admission to the college as an unclassified graduate student;

Filing in the Office of Admissions of two official sets of transcripts of all collegiate and graduate work; and

3. Submission of satisfactory results of the Graduate Record Examination(s).

In consultation with his graduate adviser, the student will develop a proposed Study Plan. When approved by his graduate adviser and pursued satisfactorily the programmed work can lead to the Master's degree, subject to the completion of all other requirements for the degree.

Also see Procedures in Graduate Study, beginning on p. 49.

DEPARTMENT OF PSYCHOLOGY

Professor: Schmidt (Chairman) Associate Professor: Levy

Assistant Professors: Calhoun, Carlson, James

BACHELOR OF ARTS IN PSYCHOLOGY

The major in Psychology consists of 36 units of lower and upper division work designed for students (1) who want a sound background in Psychology or a science, (2) who want a basic understanding of human behavior as a supplement to some other major course of study, and (3) those who wish to acquire a thorough undergraduate training in Psychology in anticipation of professional study.

Requirements for the Major

Lower Division:	I welve upper division and are no be esteen in the I	nits
	Introductory Psychology	3
	Elementary Statistics	3
Psychology 202	Principles of Psychology	3

Upper Division: In order to take upper division work, at least six units of Psychology (including Psychology 101) must have been completed in the lower division. In addition, a minimum of 27 units of upper division work constitutes a major in Psychology. Fifteen units are required as follows:

Psychology 302	Experimental Psychology: Learning and Motivation	Units 3
Psychology 303	Experimental Psychology: Sensation and Perception	3
or	a (GLUBORIA , GL' 1300) TAT TOT CANADA TOTAL CALL AND CALL	
Psychology 321	Physiological Psychology	
Psychology 351	Social Psychology	. 3
or		
Psychology 331	Psychology of Personality	
Psychology 461	Group Psychological Testing	. 3
Psychology 408	History of Psychology	. 3

A minimum of 12 additional units in Psychology courses will be selected in consultation with the academic adviser.

Recommended Related Courses

Courses from each of the following areas according to the student's interests: (1) Social Sciences; (2) Physical Sciences; (3) Biological Sciences, preferably Physiology; (4) Mathematics; (5) Humanities, such as Philosophy, and Literature.

Students planning to do graduate work in Psychology are advised to plan additional work in biological and physical sciences and to include at least a one-semester course in college mathematics. Undergraduate work in foreign languages is also recommended.

DEPARTMENT OF SOCIOLOGY

Professors: Davis (Chairman), Untereiner

Assistant Professors: Faia, Ibrahim, Jacobson, Palisi, J. R. Smith, Works

BACHELOR OF ARTS IN SOCIOLOGY

The major in Sociology provides knowledge concerning the structure and functioning of human society. It may be applied in a wide range of situations in which the student may participate professionally or as a citizen.

Unit Requirements

The required minimum for the major is 42 units, in addition to those taken for the general education requirement, distributed as follows:

Courses in Sociology

Thirty units must be taken in Sociology, 24 in upper division courses. Sociology 201 is required, and 3 additional units are acceptable from lower division offerings. The minimum of 24 upper division units must include 331A, 331B, 341, 481, and at least one of the following: 436, 470, 473, 477.

Minimum units _____

____ 30

Related Courses

Twelve upper division units are to be taken in the related fields of Anthropology, Economics, Geography, History, Political Science, and Psychology, to be approved by the major adviser.

Minimum units _____

12

Minimum total units for the major....

The following suggestions will enable the student to work towards his own career objectives in selecting courses to meet the above requirements for the major in Sociology.

(a) Courses suggested for preparation for graduate study in Sociology and careers in teaching or research: Sociology 348, 361, 371, 425, 436, 451, 473, 477, 480; Anthropology 201A, 201B, 421; Economics 200A, 200B, 302, 303, 326; Geography 121, 471; History 401, 429, 486A-B; Philosophy 250, 331, 407; Political Science 312, 331, 341, 415; Psychology 331, 341, 431; a reading knowledge of at least one foreign language.

(b) Courses suggested for those interested in immediate employment or graduate study in social work, corrections and related careers: Social Welfare, 311, 351; Sociology 202, 371, 411, 413, 431, 436, 451, 465, 470; Anthropology 201B, 415; Economics 200A, 201; Geography 121, 471; Philosophy 310, 331; Psy-

chology 341, 342; Political Science 311, 320, 420.

(c) Courses suggested for careers in industry or government service, or for pre-law: Sociology 202, 361, 371, 411, 465, 470, 473; Anthropology 201B, 301, 425; Economics 200A, 200B, 201, 326, 401; Geography 471, 481; History 474, 475, 476; Political Science 320, 413, 414, 423, 436, 461; Psychology 342, 391.

TEACHING MINOR IN SOCIOLOGY

For teaching credential purposes a minor consists of 21 units in Sociology, distributed as follows:

201	3	credits
202 or 411 or 431	3	credits
341 or 451	3	credits
477 or 480 or 481	3	credits
Electives in sociology	9	credits
	-	
	21	credits

(Recommend that courses be chosen from group "a" as listed above.)

Social Welfare

Students seeking employment or graduate study in social work should refer to paragraph (b) under the Sociology major if they plan to major in Sociology; but satisfactory preparation is also provided by other majors, such as Psychology, Anthropology, Economics, or Political Science. There is no major in social welfare, but two courses, Social Welfare 311: Welfare Institutions, and 351: Social Work Methods, provide an introduction to the field.

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VECTOROR IN SOCIOLOGY

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codents socking employment or graduate study in social work should refer to error (b) under the Sociology major if they plan to major in Sociology init actiony preparation is inso provided by other major, and, a Exchelegy Augority, Economics, or Policical Society, There is no rough so social welfare, two courses, Social Welfare instructions, and 333, Social Welfare instructions.

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Anthony Strange

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The following engagement will enable the sendon to work abusels in a career supervives in ordering courses to meet the abuse requirements for major in Specialisms.

(a) Consider suggested the preparation for graduate county in Sociology and surin translating of research, Sociology 198, 361, 171, 415, 416, 451, 475, 477, Appropriate ACA, 5013, 411; Leonomics 200A, 200B; 20, 301, 325, 415, capty (1), 411, 421, 431, 411; Leonomics 200A, 200B; 20, 301, 325, 417, capty Science VII, 311, 431, 411; Psychology (3)1, 341, 515, a reading knowledge to least one sociology approach

Contract supersynd for those interested in immediate employment or great study in social work, corrections and related carenas. Social Welfare.
 817. Sociology 202, 371, 414, 415, 611, 416, 413, 465, 470. Anthropology 215, Economics 2014. 202. Geography 411, 471. Philosophy 170, 321.

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to: Courses conferred for current of industry for government service, or flavour Sections 202,3561, 311, 411, 405, 470, 473; Ambropology 2018, 420 Repetations 200A, 100H, 261, 326, 461, Geography 471, 481, 110, 476, 475, 475; Printeral Science 320, 412, 414, 427, 436, 461; Psychology 201, 101, 414, 427, 436, 461; Psychology 201, 415, 414, 427, 436, 444, 427, 436, 444, 427, 436, 444, 445, 445, 444, 445, 444, 445, 445, 444, 445, 445, 444, 445

ANNOUNCEMENT OF COURSES

AND

FACULTY DIRECTORY

FOR 1964-65

GENERAL COURSE NUMBERING CODE

- 100-299 Lower division courses of freshman and sophomore level, but open also to upper division students
- 300-499 Upper division courses of junior and senior level. Those which are approved by the department may be included for credit in the master's degree program.
- 500-599 Courses on the graduate level
- 700-799 Professional education courses in the postgraduate program.

Note: The figure in parentheses following each course title indicates the number of semester units. F and S following the parentheses indicate that the course is planned for Fall and/or Spring semesters.

PREREQUISITES

Students are expected to meet stated prerequisites for all courses. However, in exceptional cases, and at the discretion of the division in which the course is taught, students may be allowed to meet prerequisites by examination.

INDEPENDENT STUDY

Under the Independent Study Program, the upper division student can pursue topics or problems of special interest beyond the scope of a regular course under the supervision of a faculty adviser. The work is of a research or creative nature, and normally culminates in a paper, project, comprehensive examination, or performance. Before registering, the student must get his topic approved by the professor who will be supervising independent study. The catalog number for independent study in all departments is 499. Independent study courses may be repeated, but 3 units is the maximum credit that may be earned in one semester.

Independent Study is not limited to Honors students, but all those in the Honors Program are especially urged to undertake some of this work in the major field. The student who can be expected to profit from independent study has exceptional initiative and persistence, and a desire to delve into some special project on his own.

ACCOUNTING CONTRACT COMMON IN

IN THE SCHOOL OF BUSINESS ADMINISTRATION AND ECONOMICS (Offered by the Department of Accounting and Finance)

101A,B. Elementary Accounting (3,3) F, S

Prerequisite: Accounting 101A must be taken before taking Accounting 101B. These courses are to be taken by sophomores to fulfill the core requirement in Accounting.

Accounting concepts and techniques essential to the administration of a business enterprise; analyzing and recording financial transactions; preparation of financial statements; analysis and interpretation of financial statements; introduction to manufacturing accounts and reports.

200. Elementary Accounting (5) F, S

Prerequisite: Junior standing. This course is to be taken only by transfer students,

with junior standing. Duplicates 101A and 101B.

Accounting concepts and techniques essential to the administration of a business enterprise; analyzing and recording financial transactions; preparation of financial statements; analysis and interpretation of financial statements; introduction to manufacturing accounts and reports.

300. Accounting Fundamentals (3) F, S (Open only to graduate students)

The basic fundamentals of accounting as they apply to the accumulation, organization, and interpretation of financial and quantitative data relevant to the activities of the corporate business enterprise.

301A,B. Intermediate Accounting (3,3) F, S

Prerequisite: Accounting 101B or 200. The quantification, recording, and presentation of balance sheet and income statement items with particular emphasis on the corporate type of organization; statement of application of funds; cash flow statement; basic concepts of accounting theory; interpretation of financial statements.

302. Cost Accounting (3) F, S

Prerequisite: Accounting 101B or 200. The development of accounting information for management of manufacturing enterprises; cost records; cost behavior and allocation; standard costs; and an introduction to cost control.

303. Governmental Accounting (3) F

Prerequisite: One course in Accounting. A consideration of the accounts and reports of non-profit institutions, municipalities, state and federal governments; organization, procedures, budgets.

304. Managerial Accounting (3) F, 5

Prerequisite: Accounting 101B or 200. This course is intended for students whose area of concentration is not accounting. Analysis, interpretation, and application of accounting information for managerial decision-making; budgets and budgetary control; special-purpose reports; differential cost analyses.

307. Distribution Costs (3) S

Prerequisites: Accounting 101B or 200, and Marketing 351. The development of quantitative measures for marketing activity; costs of distributing through different channels of distribution, advertising vs. personal selling, and movement activities; development of sales budgets, standard costs, and the analysis of actual performance in the light of budgets and standards. (Same as Marketing 307.)

308. Federal Income Tax (3) F. S

Prerequisite: Accounting 101B or 200. Basic consideration of the history, theory, and accounting aspects of federal income taxation.

401. Advanced Accounting (3) S

Prerequisite: Accounting 301B. A study of partnerships, statements for special purposes, receiverships, consolidated financial statements, branch accounting and foreign exchange.

402. Auditing (3) 5

Prerequisites: Accounting 301B and 302. Nature of an audit, auditing standards and procedures, audit reports; professional ethics and responsibilities of the independent public accountant; introduction to internal auditing.

405. Industrial Accounting (3) F, S

Prerequisite: Accounting 101B, or 200, or 300.

This course is intended for students whose area of concentration is not accounting. Accounting information for industrial management; elements of manufacturing cost; cost systems; standard costs; costs reports; distribution cost analysis.

406. Cost Control (3) S

Prerequisite: Accounting 302 or 405. A study of current and persistent problems in cost accounting; theories of cost allocation and absorption; flexible budgeting; responsibility accounting; and distribution cost control.

407. Integrated Data Processing Systems (3) F

Prerequisites: Senior standing, and the consent of the instructor. A survey of integrated systems for the collection, processing, and transmission of information; management aspects of the information service function; feasibility studies; introduction to programming; case studies of operating systems.

408. Problems in Taxation (3) S

Prerequisite: Accounting 308. Research in problems of taxation with emphasis on income taxes as they relate to corporations, partnerships and fiduciaries.

409. C.P.A. Problems and Review (3) S

Prerequisite: Accounting 401, or consent of the instructor. Selected problems and questions as found in the uniform C.P.A. Examination; preparation, analysis and revision of financial statements; assets, liabilities and ownership equities; income determination; cost accounting; governmental and institutional accounting; accounting theory.

499. Independent Study (3) F, S

Prerequisites: Senior standing and approval by the department chairman. Open to qualified undergraduate students desiring to pursue directed independent inquiry. May be repeated for credit.

501. Administrative Accounting (3) F, S

Prerequisites: Accounting 405, Finance 330, and consent of the instructor. Accounting, financial, and other quantitative data for managerial decision-making; long-term and short-term profit planning; budgetary control; cost analysis and special reports; financial analysis and planning; the financial and taxation aspects of business decisions.

502. Seminar in Accounting Theory (3) S

Prerequisites: Graduate standing and consent of the instructor. The concepts and theory of accounting; the effects of professional, governmental, business, and social forces on the evolution of accounting theory.

ANTHROPOLOGY

IN THE DIVISION OF THE SOCIAL SCIENCES

201A. Introduction to Anthropology (3) F

Basic scientific and historical orientations. Introductions to physical anthropology and archaeology. Man's biological origins and development and his cultural prehistory in the Old World.

201B. Introduction to Anthropology (3) 5

Introduction to cultural anthropology. Includes such topics as: variations, integration, and change in human cultures, and particularly preliterate ones; analysis of such institutional forms as economy, government, religion, art, and family; and a consideration of central problems of cultural comparison and interpretation.

301. World Ethnography (3) F

A general survey of the peoples of the world and a study of representative cultures with special reference to their situation in the history and geography of the world.

321. The American Indians (3) F

Prerequisite: Anthropology 201B or 301 or consent of instructor. Physical and cultural characteristics of the native peoples of the New World. Prehistory and the impact of contacts with the Europeans. Major tribes of all the Americas are included in an overview, but emphasis is placed on Indians of North and Central America.

325. Peoples of South America (3) S

Prerequisite: Anthropology 201B or 301 or consent of instructor. A cultural survey of South America. Description of selected cultures representative of different cultural areas before and after contacts with Western countries.

328. Peoples of Africa (3) S

Prerequisite: Anthropology 201B or 301 or consent of instructor. A cultural survey of Africa. Description of selected cultures representative of different cultural areas before and after contacts with Western and Asian countries.

401. Anthropological Research Methods (3) F

Prerequisites: Anthropology 201A-B and 6 additional units of anthropology or consent of instructor. The philosophy and methodology of science and history as they are expressed in anthropological research. Research planning, organizing, data collection and recording, categorization and interpretation of results, and reporting. Recent methodological developments.

410. Language and Culture (3) S

Prerequisites: Anthropology 201B or consent of instructor. The study of language as a factor in culture. Introduction to anthropological linguistics with some linguistic analysis of texts. Trends in the study of language and culture.

415. Culture and Personality (3) S

Prerequisites: Anthropology 201B, Psychology 331 or 351, or Sociology 341. Comparative study of the relationship between the individual and his culture. Child training in non-Western cultures. Survey of important concepts, studies, and research techniques. Changing viewpoints and new directions in culture-personality studies.

421. Primitive Religions (3) S

Beliefs and practices in preliterate religious systems; the forms, symbolism, and social and cultural roles of these systems. Includes such topics as magic, animism, art and religion, shamans and priests, and cults.

425. Primitive Law and Government (3) F

Consent of instructor. Sources of law-government in primitive societies; the cultural background of law; the functions and development of law and government in primitive polities; transitions to and comparisons with classical and modern legal and political systems.

480. History of Anthropology (3) S

Prerequisites: At least 12 units of Anthropology or consent of instructor. Historical antecedents of modern anthropology. A systematic survey of the development of anthropology as a scientific field; an examination of the principal contributions of leading anthropologists, past and present. Reinterpretations and emerging trends.

499. Independent Study (3) F, S

At least 15 units of Anthropology and consent of the adviser. Student selection of an individual research project involving either library or field work. There are conferences with the adviser as necessary, and the work results in one or more papers. May be repeated for credit.

ART

IN THE DIVISION OF FINE AND APPLIED ARTS

100. Exploratory Course in Art (3) F, S

Exploration and creative use of a variety of art materials, processes, and concepts. Field trips required. Not open to art majors for credit except by permission of the Art Department.

101. Introduction to Art (3) F

A course for the general student designed to develop an understanding of hlstorical and contemporary art forms. Illustrated with examples of painting, sculpture, architecture, and design. Field trips required. Not open to art majors for credit except by permission of the Art Department.

103. Two-Dimensional Design (3) F, S

The inventive use of materials, tools, and elements of plastic organization as related to a two-dimensional surface.

104. Three-Dimensional Design (3) F, S

The inventive use of materials, tools, and elements of plastic organization as 16 lated to three-dimensional surfaces and forms.

106A,B. Beginning Ceramics (3,3) F, S

A basic course in the study of form as related to ceramic materials, tools, processes, and concepts.

07A,B. Beginning Drawing and Painting (3,3) F, S

Beginning work in the creative use of the materials of drawing and painting with emphasis on visual concepts and use of medium, individual exploration, growth, planning and craftsmanship.

111. Fundamentals of Art (3) F, S

A comparative study of the elements of plastic organization in relation to personal and cultural aesthetic expression and concepts. Fundamental art ideas, probems of organization and structure, and terminology. Field trips required.

117A,B,C,D. Life Drawing (1,1,1,1) F,S

Drawing from the live model. 117B will include working from the model with three-dimensional materials.

201A,B. Art and Civilization (3,3) F, S

A comparative survey of the basic ideas, forms, and styles of the visual arts as they developed in various cultures from prehistoric time to the present day.

205A,B. Beginning Crafts (3,3) F, S

Prerequisite: Art 103 or Art 100. A study of form as related to the concepts, materials, and processes involved in the making of both two and three-dimensional art forms from wood, metal, plastics, and paper.

207A,B. Drawing and Painting (3,3) F, S

Prerequisite: Art 117A,B; Art 107A,B; Art 103, or the equivalents. An intensive study of devices and means for representing volume, structure, and character of objects. Emphasis in 207A on the use of drawing materials in relation to man-made and nature objects and in 207B on the use of painting materials in relation to the head and figure.

216A,B. Beginning Sculpture (3,3) F, S

Prerequisite: Art 104. An introductory course in sculpture with emphasis on the creative use of wood and metal, power equipment and hand tools.

²²³A,B. Lettering, Typography and Rendering (3,3) F, S

Prerequisite: Art 103, 107A, 117A. A study of the history, design, and use of etter forms including techniques for rough and comprehensive layouts and the use of both hand lettered forms and hand set type.

301. Western Art: Ancient to Classic (3) F

A study of the developments in art from pre-historic time to the classic period in Greek art.

302. Western Art: Classic to Renaissance (3) S

Provides broad familiarity with the major styles of classic, medieval, and Russian art. Lectures, discussions and field trips.

305A,B. Crafts (3,3) F, S

Prerequisite: Art 103 and 104, or 205A, or 100 and 432 or the equivalent. A study and evaluation of basic craft concepts, processes, and materials as they relate to the development of utilitarian forms.

306A,B. Advanced Ceramics (3,3) F, S

Prerequisite: Art 106A or 106B. Further experiences in the study and evaluation of form as related to the creative use of ceramic concepts and materials including design, forming, glazing, and firing.

307A,B. Advanced Drawing and Painting (3,3) F, S

Prerequisite: one semester of drawing and one semester of painting. The study, evaluation, and creative use of the concepts and materials of drawing and painting with emphasis on individual exploration, growth, planning and craftsmanship.

309. Art Techniques (3) F, S

Prerequisite: Art 100 or the equivalent. Creative use of a variety of drawing and painting materials.

311. Western Art: Renaissance and Baroque (3) F

Basic problems of painting, sculpture and architecture of the Renaissance and Baroque periods. Lectures, discussion, and field trips. Also recommended for humanities and history students.

312. History of Art Since 1800 (3) S

Art of the Nineteenth Century and its development into contemporary times.

313A,B. Interior Design (3,3) S

Prerequisites: Art 103, 104, 107A,B. Development and projection of ideas in relation to the functional, social, and aesthetic problems involved in the design and planning of living spaces for homes and small offices.

316A,B. Sculpture (3,3) F, S

Prerequisite: Art 205A,B. Theory, study and practice of basic sculpture processes using a variety of materials.

317A,B. Advanced Life Drawing (3,3) F, S

Prerequisite: three units lower division life drawing. Drawing and painting from the live model.

323A,B. Advertising Design (3,3) F, S

Prerequisite: Art 103, 104, 107A,B. Development and projection of ideas in relation to the technical, aesthetic, and psychological aspects of advertising art.

333A,B. Industrial Design (3,3) (Offered in alternate years)

Prerequisites: Art 103, 104 or 205A, 107A,B. Planning and designing of projects in relation to the technological, psychological, and social aspects of contemporary society.

338A,B. Creative Photography (3,3) F, S

Prerequisite: Art 103 and Communication 218A, or its equivalent, or consent of the instructor. Photography as an art medium with emphasis on the creative use of photographic concepts, materials, processes and techniques. Field trips to be arranged.

347A,B. Printmaking (3,3) F, S

Prerequisite: Art 107A,B and Art 117A,B,C. An introduction to concepts and materials involved in printmaking including lithography, etching, woodcut, aquatint, monoprint and serigraphy.

350A,B. Painting for Non-Art Majors (3,3) F, S

Opportunities for students with little or no background in art to work creatively with various painting media both indoors and outdoors.

353A,B. Textile Design (3,3) (Offered in alternate years)

Prerequisite: Art 100 or Art 103. The creative exploration and design of fabrics relative to the needs of apparel, furniture, architecture, and interiors using both printed and woven processes.

380. Art and Child Development (3) F, S

Prerequisite: Art 100 and Education 311. The study and evaluation of art concepts, materials, and processes as they relate to and promote child development.

401. Contemporary Art (3) F

Fundamentals of modern painting, graphics, and photography.

402. Contemporary Art (3) S

Fundamentals of modern architecture, interior design, sculpture, and industrial design. Lectures, discussions, and field trips.

411. Primitive Art: the Pacific Perimeter (3) F

A study of the art of primitive groups and cultures in California and the Pacific Perimeter.

412. Primitive Art: The Americas (3) S

A study of the art of primitive groups and cultures in North and South America.

421. Oriental Art: China (3) F

A study of the historical development of the arts of China and their relation to Chinese philosophy and culture.

422. Oriental Art: Japan (3) S

A study of the historical development of the arts of Japan and their relation to Japanese philosophy and culture.

453A,B. Display and Exhibition Design (2,2) F, S

A course in the appropriate and creative use of materials, processes, and design concepts as they relate to the special problems involved in the planning and preparing of displays, exhibits, bulletin boards, wall cases, and art portfolios.

481. Special Studies in Art History and Appreciation (1-3) F, S

Prerequisite: permission of the instructor. Opportunities for intensive study and evaluation in one area of art history and appreciation.

483. Special Studies in Design (1-3)

Prerequisite: permission of the instructor. Opportunity for intensive study in the design areas listed below. Each area listed may be repeated to a maximum of 8 units, but no more than 3 units of credit may be obtained in any one area in a single semester.

- 483a. Advertising Design (F, S)
- 483b. Interior Design (S)
- 483c. Design and Composition (F, S)
- 483d. Display Design (F, S)
- 483e. Textile Design (Offered in alternate years)

485. Special Studies in Crafts (1-3)

Prerequisite: permission of the instructor. Opportunity for intensive study in the craft areas listed below. Each area listed may be repeated to a maximum of 8 units, but no more than 3 units of credit may be obtained in any one area in a single semester.

485a. Jewelry (S)

485b. General Crafts (F, S)

485c. Ceramics (F, S)

485d. Weaving (Offered in alternate years)

486. Special Studies in Sculpture (1-3) F, S

Prerequisite: Art 316A,B and permission of the instructor. Opportunity for intensive study in the following sculptural processes: modeling, carving, fabrication and casting. May be repeated to a maximum of 8 units but no more than 3 units of credit may be obtained in a single semester.

487. Special Studies in Drawing and Painting (1-3)

Prerequisite: permission of the instructor. Opportunity for intensive study in the drawing and painting areas listed below. Each area listed may be repeated to a maximum of 8 units, but no more than 3 units of credit may be obtained in any one area in a single semester.

487a. Painting (F, S)

487b. Life Drawing (F, S)

487c. Drawing (F)

487d. Printmaking (F, S)

500. Graduate Seminar in Art (3) F

Selected advanced problems in art and art education. Each student will present research results in oral or written form.

501. Graduate Seminar in Art History and Appreciation (3) F, S

Directed research with emphasis on the relationship between historical backgrounds and developments in art and the student's area of concentration. May be repeated to a maximum of 8 units.

503. Graduate Problems in Design (1-3 units)

Prerequisite: permission of instructor. Intensive study with emphasis on planning, development, and evaluation of individual projects in the design areas listed below. May be repeated to a maximum of 8 units in each area, but no more than 3 units of credit may be obtained in any one area in a single semester.

503a. Advertising Design (F, S)

503b. Interior Design (S)

503c. Design and Composition (F, S)

503d. Display Design (F, S)

503e. Textile Design (S) (Offered in alternate years)

505. Graduate Problems in Crafts (1-3)

Prerequisite: permission of instructor. Intensive study with emphasis on planning, development, and evaluation of individual projects in the crafts areas listed below. May be repeated to a maximum of 8 units but no more than 3 units of credit may be obtained in a single semester.

505a. Jewelry (S)

505b. General Crafts (F, S)

505c. Ceramics (F, S)

506. Graduate Problems in Sculpture (1-3) F, S

Prerequisite: permission of the instructor. Intensive study with emphasis on planning, development, and evaluation of individual projects in sculpture. May be repeated to a maximum of 8 units but no more than 3 units of credit may be obtained in a single semester.

507. Graduate Problems in Drawing and Painting (1-3)

Prerequisite: permission of instructor. Intensive study with emphasis on planning, development, and evaluation of individual projects in the drawing and painting areas listed below. May be repeated to a maximum of 8 units but no more than 3 units of credit may be obtained in a single semester.

507a. Painting (F, S)

507b. Life Drawing (F, S)

507c. Drawing (S)

332.

507d. Printmaking (F, S)

598. Graduate Project or Thesis (3-6) F, S

Prerequisite: Recommendation of the student's graduate committee. Development and presentation of a thesis or creative project in the area of concentration beyond regularly offered course work. No more than 3 units may be taken in any one semester.

ART EDUCATION

IN THE DIVISION OF FINE AND APPLIED ARTS (Offered by the Department of Art)

Industrial Arts for Elementary Teachers (2) F (Offered in alternate years)

Prerequisite: Ed., Found. 311 or consent of the instructor. Creative selection, organization and use of materials and tools in construction activities. Includes correlation experiences with the social studies, science, and other units of work.

360. Elementary School Crafts (2) S (Offered in alternate years)

Studio activities and techniques of crafts appropriate to the elementary school. Strongly recommended for elementary teaching credential candidates.

370A,B. Art Activity (2,2) F, S

Opportunities to observe, analyze, and evaluate child growth in and through creative art experiences.

429A,B. Arts and Crafts for Teaching Exceptional Chidren (2,2) (Offered in alternate years)

Methods of using a variety of art materials and processes with emphasis on those experiences which meet the needs of retarded or handicapped children.

442. Teaching Art in the Secondary School (2-3) F

Prerequisites: Education Found. 311, Education Sec. 340, senior standing, or consent of the instructor. Objectives, methods, and materials for teaching art in secondary schools. Required, before student teaching, of students presenting majors in art for the Standard Teaching Credential. Students without teaching experience must register for three units credit, and must allow sufficient time in their schedules, at the same hour each day, so they can serve as teacher aides in secondary schools.

749. Student Teaching in Art in the Secondary School (3,3) F, S

See page 156 under Secondary Education for description and prerequisites.

BIOLOGICAL SCIENCE

IN THE DIVISION OF SCIENCE, MATHEMATICS, AND ENGINEERING

100. Principles of Biology (2) F, S

An introduction to basic concepts of structures and function in living organisms and to modern biological problems. Required of all Biology majors. Concurrent enrollment in Bio. Sci. 140 (3) or Bio. Sci. 160 (3) is suggested. (2 hours lecture per week.)

140. Principles of Botany (3) F, S

Prerequisite: Bio. Sci. 100 (concurrent enrollment recommended). Emphasis will be placed on the dynamic aspects of botany although the traditional areas of morphology and classification will not be neglected. (2 hours lecture, 3 hours laboratory per week.) This course is designed to integrate with Bio. Sci. 100: Principles of Biology. Required of all Biology majors.

160. Principles of Zoology (3) F, S

Prerequisite: Bio. Sci. 100 (concurrent enrollment recommended). An introduction to the principles of animal biology with special reference to the structure, classification, physiology, behavior and ecology of animals. This course is designed to integrate with Bio. Sci. 100: Principles of Biology. Required of all Biology majors. (2 hours lecture, 6 hours laboratory per week).

201. Field Biology (3) S

Prerequisite: 1 year of biological science and/or permission of instructor. A course for non-majors designed to acquaint the interested student with the plant and animal life of this region. (1 hour lecture, 6 hours laboratory per week.) Several week-end field trips will be arranged to study different biotic communities.

311. General Microbiology (4) F, S

Prerequisite: 1 semester courses in biology and chemistry. An introduction to the study of the morphology, growth and physiology of the bacteria and other microorganisms. A consideration of the role of microorganisms as agents of change in the natural processes important in health, industry and agriculture. (2 hours lecture, 6 hours laboratory per week.)

312. Genetics Lecture (3) S

Prerequisite: 1 year of college biology or permission of the instructor. The general principles and modern developments in the study of heredity. (3 hours lecture per week.)

312L. Genetics Laboratory (1) S

Prerequisite: Bio.Sci. 312 (may be taken concurrently). (3 hours laboratory per week.)

314. Readings in Biological Sciences (1) F

Prerequisite: Bio. Sci. 100 or equivalent. Directed readings of classical and contemporary biological literature with periodic group discussions concerning the methods and principles studied. This course is designed for the non-major. (3 hours activity per week.)

342. Plant Anatomy (4) F

Prerequisite: Bio. Sci. 140 or 1 year of college biology or equivalent. The origin, development, and maturation of leaves, stems, roots, and flowers of vascular plants. (2 hours lecture, 6 hours laboratory per week.)

343. Plant Microtechnique (2) 5

Prerequisite: Biological Science 140 or permission of the instructor. Theory and practice of the preparation of plant cells, tissues and organs for microscopic study. (6 hours laboratory per week.)

344. Plant Morphology (4) S

Prerequisite: Bio. Sci. 140 or 1 year of college biology or equivalent. A study of the morphology and classification of the lower plant groups and a general survey of the major groups of plants exclusive of angiosperms and gymnosperms. (2 hours lecture, 6 hours laboratory per week.)

361. Mammalian Anatomy and Physiology (4) S

Prerequisite: 1 year of college biology or permission of instructor. Study of the structure and function of the human organism. (2 hours lecture, 6 hours laboratory per week.)

362. Animal Histological Technique (2) S

Prerequisite: 1 year of college biology or permission of instructor. Theory and practice of the preparation of animal cells and tissues for microscopic study. (6 hours laboratory per week.)

363. Wildlife and Conservation (3) S

Prerequisites: Biological Science 140 and 160 or equivalents or permission of instructor. A study of the relationship of land, water and wildlife with an analysis of management techniques. Three hours lecture per week.

400. Undergraduate Problems in Biology (1-3) F, S

Open to advanced standing students in Biology by permission of a staff member only. May be repeated for credit.

401. Biogeography (3) S

Prerequisites: Biological Science 140 and 160 or equivalents or permission of instructor. A study of the present day distribution of plants and animals based upon classification, fossil records, morphology and geography. Three hours lecture per week.

412. Cell Physiology and Metabolism (2) F

Prerequisites: 1 year of college biology and 1 semester of organic chemistry or permission of the instructor. Characteristics of life at the cellular level; processes by which the cell obtains energy and material and forms new cell substances; control of these processes by the cell; organization of structures and enzyme systems within the cell. (2 hours lecture per week.)

412L. Cell Physiology Laboratory (2) F

Prerequisite: Bio.Sci. 412. (may be taken concurrently). (6 hours laboratory per week.)

413. Pathogenic Microbiology (2) 5

Prerequisite: 1 semester of microbiology or bacteriology. Study of the biology of infectious disease: Mechanisms of microbial pathogenicity; host defenses; mode of action of antibiotics and other antimicrobial agents; characteristics of specific pathogenic bacteria, fungi and viruses. (2 hours lecture per week.)

413L. Pathogenic Microbiology Laboratory (2) S

Prerequisite: Bio. Sci. 413 (normally taken concurrently) or permission of the instructor. (6 hours laboratory per week.)

414. Immunology (4) F

Prerequisites: Biological Science 413 or equivalent, or permission of the instructor. Study of the nature of antibodies and antigens, their role in immunity, and the specificity of their reactions. Laboratory experiments will show the kinetics of antibody formation and the mechanisms of antibody-antigen reactions. Techniques in serodiagnosis will be performed. (2 hours lecture, 6 hours laboratory per week.)

424. Evolution (3) S

Prerequisite: 1 year of college biology or permission of the instructor. A study of evolution, including the history of evolutionary thought; origin of universe, earth and life; geological and paleontological history of the earth; evidences for evolution derived from comparative anatomy, embryology, genetics, zoogeography; mechanisms of evolution. (3 hours lecture per week.)

424L. Evolution Laboratory (1) S

Prerequisite: Biology 424 (may be taken concurrently). (3 hours laboratory per week.)

425. Marine Biology (4) F

Prerequisites: Bio.Sci. 100 and Physical Science 201 or equivalent, or permission of the instructor. Physical and chemical aspects of the ocean as a background for the study of marine organisms and habitats, including a study of currents, tides, food cycles, productivity, biotic associations, succession, and communities. Habits, identification, ecology, methods of collecting, preserving and maintaining alive local marine algae, invertebrates, and fish. (2 hours lecture, 6 hours laboratory or field work per week.)

436. Microbial Growth and Physiology (4) S (Planned for 1967)

Prerequisites: 1 semester courses in microbiology and organic chemistry. An advanced treatment of the growth, physiology and structures of the microorganisms, with emphasis on study of the free-living bacteria, yeasts and molds. (2 hours lecture, 6 hours laboratory per week.)

439. Microbial Ecology (2) S

Prerequisite: 1 semester of microbiology or bacteriology. The interaction of microbes and their environment: the influence of physical and chemical factors on the distribution and activities of microbial populations; the effects of microbes on the living and nonliving environment. (2 hours lecture per week.)

439L. Microbial Ecology Laboratory (2) S

Prerequisite: 1 semester of microbiology; 439 is normally taken concurrently. Basic principles of microbial enrichment, selection and succession. On completion of the basic experiments each student will select and perform a field and laboratory study in microbial ecology. (6 hours laboratory per week.)

441. Plant Taxonomy (4) S

Prerequisite: Bio. Sci. 140 or 1 year of college biology or equivalent. An introduction to the study of classification of conifers and the flowering plants through field collecting and laboratory study and identification of representative kinds. (2 hours lecture, 6 hours laboratory per week.)

443. Plant Ecology (4) 5

Prerequisite: Plant Taxonomy 441. Relation of plants to their environment with emphasis on climatic and soil factors influencing their structure, behavior, and distribution. (2 hours lecture, 6 hours laboratory per week.)

444. Plant Physiology (4) S

Prerequisites: Bio. Sci. 140 or equivalent and 1 semester of organic chemistry or permission of the instructor. A study of plant growth, nutrition, food synthesis, and metabolism. (2 hours lecture, 6 hours laboratory per week.)

445. Mycology (4) S

Prerequisite: Bio. Sci. 140. A study of the comparative morphology and taxonomy of the fungi with an emphasis on morphological, physiological and reproductive characteristics demonstrating evolutionary relationships. (2 hours lecture, 6 hours laboratory per week.)

452. Economic Botany (3) F

Prerequisites: Biological Science 140 or permission of the instructor. An examination of man's dependence upon and economic interest in plants throughout the world. (3 hours lecture per week.)

461. Invertebrate Zoology (4) F

Prerequisites: Biological Science 160, or a year of college biology or permission of instructor. Evolution, classification, physiological adaptations, and biology of invertebrate animals. Includes dissection, identification and observation of living animals. 2 hours lecture, 6 hours laboratory or field work per week.

463. Comparative Vertebrate Anatomy (4) F

Prerequisite: A year course in general zoology or biology, or permission of the instructor. A comparative study of the chordates, with emphasis on morphology and evolution of various organ systems from fish through mammals. Includes thorough dissection of dogfish, Necturus, and cat. (2 hours lecture, 6 hours laboratory per week.)

464. Embryology (4) F

Prerequisite: A year course in general zoology or biology or permission of the instructor. Study of development from fertilization through organo-genesis with laboratory work on the frog, chick, and pig. (2 hours lecture, 6 hours laboratory per week.)

465. Animal Ecology (4) F

Prerequisite: Three semesters of college biology or permission of the instructor. A survey of the physical, chemical, and biological factors of the environment as they affect the distribution and mode of life of animals. (2 hours lecture, 6 hours laboratory per week.)

467. Entomology (4) S

Prerequisite: Biological Science 160, or a year of college biology or permission of instructor. Anatomy, physiology, evolution, and biology of insects and other terrestrial arthropods. Laboratory includes detailed dissection, collection, identification, and observation of living arthropods. 2 hours lecture, and 6 hours laboratory or field work per week.

471. Natural History of the Vertebrates (4) S

Prerequisites: 1 year of college biology; comparative vertebrate anatomy, or permission of the instructor. Natural history, behavior, distribution, and ecology of the vertebrates. Laboratory and field emphasis on identification, behavior, maintenance of living and preserved animals. (2 hours lecture, 6 hours laboratory or field work per week.)

472. Parasitology (4) F

Prerequisite: One year of general biology or permission of instructor. A consideration of the symbiotic relationships existing at all levels of animal organization. Emphasis will be placed on the natural history, biology, physiology, ecology and laboratory recognition of symbiotic organisms. (2 hours lecture, 6 hours laboratory per week.)

500. Graduate Problems in Biology (1-3) F, S

Open to graduate students only by permission of a staff member. May be repeated for credit.

501. Thesis (1-3) F, S

May be repeated for a maximum of 6 units of credit.

502. Seminar in Biology (2) F, S

Open to graduate students only by permission of the instructor. May be repeated for credit.

511. Seminar in Microbiology (2) F, S

Open to graduate students only by permission of the instructor. May be repeated for credit.

516. Viruses and Virus Infections (4) S

Prerequisite: A course in microbiology or bacteriology. A study of viruses as molecules, as living organisms and as infectious agents. Further consideration of virus infections of man, other animals, bacteria and plants; comparison of viruses with rickettsiae and other obligate parasites. (2 hours lecture, 6 hours laboratory per week.)

540. Seminar in Botany (2) F, S

Open to graduate students only by permission of the instructor. May be repeated for credit.

560. Seminar in Zoology (2) F, S

Open to graduate students only by permission of the instructor. May be repeated for credit.

BUSINESS ADMINISTRATION AND ECONOMICS

Courses in Business Administration and Economics appear under the following headings: Accounting, Business Education, Economics, Finance, Management, Marketing, Quantitative Methods.

The following two courses are offered in all departments:

597. Project (3) F, S

Open to qualified graduate students. Directed independent inquiry.

598. Thesis (3-6) F, S

Open to qualified graduate students. Directed independent inquiry. Student will select and have approved a thesis topic, show evidence of original research, and must present himself for a defense of the thesis before a faculty committee.

BUSINESS EDUCATION

IN THE SCHOOL OF BUSINESS ADMINISTRATION AND ECONOMICS

442. Teaching Business in the Secondary School (2-3) F

Prerequisites: Education, Found. 311, admission to teacher education. Principles, methods, and materials of teaching business subjects in secondary schools.

749. Student Teaching in Business in the Secondary School (6) F, S

See page 156 under Secondary Education for description and prerequisites.

CHEMISTRY

IN THE DIVISION OF SCIENCE, MATHEMATICS, AND ENGINEERING

Introductory Chemistry (5) F, S

Prerequisite: One year of high school mathematics. A general education course in the fundamental principles of chemistry with emphasis placed on the chemistry of inorganic compounds. Does not apply as credit for majors in the physical or biological sciences or for minors in the physical sciences. (4 hours lecture and 3 hours laboratory per week.)

101A,B. General Chemistry (5,5) F, S

Prerequisites: High school algebra and either high school physics or high school chemistry. The fundamental principles of chemistry with emphasis on the chemistry of inorganic compounds. Quantitative methods are introduced during the second semester. (3 hours lecture, 6 hours laboratory per week.)

Modern Physical Science (4 or 5) F, S. (See course description under Physical Science).

205. Glass Blowing (1) F, S

Elementary training in the manipulation of glass leading to the construction of scientific glass apparatus. Enrollment limited with preference given to junior and senior physical science majors. (4 hours laboratory per week.)

211. Quantitative Analysis (4) F

Prerequisite: Two semesters of college chemistry. Stoichiometry and the fundamentals of volumetric and gravimetric analysis. Students completing Chemistry 101B with a grade of C or better will not receive credit. (2 hours lecture, 6 hours laboratory per week.)

212. Quantitative Chemistry (4) 5

Prerequisites: Chemistry 101A,B (with a grade of C or better) or Chemistry 211. Modern analytical chemistry including contemporary wet chemical methods in aqueous and non-aqueous media and an introduction to instrumental methods of analysis in electrochemistry, spectrophotometry and radiochemistry. (2 hours lecture, 6 hours laboratory per week.)

251. Elementary Organic Chemistry (4) F, S

Prerequisite: Chemistry 100 or equivalent. A course for non-chemistry majors designed to provide an introduction to the properties, methods of preparation, and reactions of the more important classes of organic compounds. (3 hours lecture, 3 hours laboratory per week.)

301A,B. Organic Chemistry (3,3) F, S

Prerequisites: Chemistry 101B or equivalent and concurrent enrollment in either Chemistry 302A,B or Chemistry 303A,B. A comprehensive course in organic chemistry with emphasis on the modern theories of structure and reaction mechanism. (3 hours lecture per week.)

302A,B. Organic Chemistry Laboratory (1,1) F, S

Prerequisite: Concurrent enrollment in Chemistry 301A,B. A course designed to give training in the basic techniques of the organic chemistry laboratory, including synthesis of typical aliphatic and aromatic compounds. (3 hours laboratory per week.)

303A,B. Organic Chemistry Laboratory (2,2) F, S

Prerequisite: Concurrent enrollment in Chemistry 301A,B. Experiments illustrating laboratory techniques, syntheses, and instrumental methods used in the modern organic chemistry laboratory. Recommended for Chemistry majors. (6 hours laboratory per week.)

371A,B. Physical Chemistry (3,3) F, S

Prerequisites: Calculus, college physics, and two years of college chemistry. A study of the fundamental laws and theories of chemistry. Thermodynamics, solutions, chemical and phase equilibra, electrochemistry, atomic and molecular structure, and kinetics are covered. (3 hours lecture per week.)

401. Organic Preparations (2-3) S

Prerequisite: Chemistry 301A,B or equivalent. Laboratory exercises using advanced methods and techniques for the preparation of organic compounds. Library work required. (6 or 9 hours of laboratory per week.)

403. Characterization of Organic Compounds (4) F

Prerequisite: Chemistry 301A,B or equivalent. The identification of organic compounds as pure substances or in mixtures. (2 hours lecture, 6 hours laboratory per week.)

411. Instrumental Analysis (4) F

Prerequisites: Chemistry 212, 301A,B or equivalent. Utilization of modern instruments in the solution of analytical problems (2 hours lecture, 6 hours laboratory per week.)

421. Inorganic Preparations (2-3) F

Prerequisites: Chemistry 212 and 301A. Laboratory exercises in the preparation of inorganic compounds. Library work required. (6 or 9 hours laboratory per week.)

425. Advanced Inorganic Chemistry (3) F, S

Prerequisites: Chemistry 101A,B or equivalent, Chemistry 301A,B, and concurrent enrollment in Chemistry 371A,B. An introduction to molecular orbital theory, ligand field theory, mechanisms of inorganic reactions, the coordination chemistry of transition metal complexes and organometallic compounds. (3 hours lecture per week).

431. Advanced Organic Chemistry (3) S

Prerequisites: Chemistry 301A,B, Chemistry 371A and Chemistry 371B (or concurrent enrollment). Theoretical aspects of organic chemistry with emphasis on the modern concepts of structure and chemical reactivity. (3 hours lecture per week.)

441. Physical Chemistry Laboratory (3) F, S

Prerequisite: Chemistry 371A,B. May be taken concurrently with Chemistry 371B with the permission of the instructor. Laboratory exercises illustrating the physical principles of chemistry. (1 hour lecture, 6 hours laboratory per week.)

451. Advanced Physical Chemistry (3) F

Prerequisite: Chemistry 371A,B. An introduction to the application of quantum mechanics and statistical mechanics in chemistry. (3 hours lecture per week.)

461. Chemical Thermodynamics (3) S

Prerequisite: Chemistry 371A,B or equivalent. A study of thermodynamic principles and their application to chemical processes. (3 hours lecture per week.)

472. Chemical Crystallography (3) S

Prerequisite: 1 year each of college chemistry and physics or permission of the instructor. The fundamentals of crystallography, X-rays and X-ray diffraction, and crystal chemistry. (3 hours lecture per week.)

475. Theory of Spectroscopy (3) F

Prerequisite: Chemistry 371A,B or equivalent. An introduction to the theory of the structures of the electronic spectra of diatomic and simpler polyatomic molecules, transition rules, group theory, and UV, IR, NMR, and Raman spectra. (3 hours lecture per week.)

491. Chemical Literature (1) F, S

Prerequisite: Upper division standing. An introduction to the types and use of chemical literature. (1 hour lecture per week.)

495. Senior Research (1-3) F, S

Prerequisite: Consent of supervising instructor. Open only to students with a B average in chemistry. An introduction to the methods of chemical research through a research project carried out under the supervision of one of the Chemistry Department faculty. May be repeated for credit.

499. Independent Study (1-3) F, S

Study of some special topic in chemistry, selected in consultation with the instructor and carried out under his supervision. May be repeated for credit.

500. Research in Chemistry (1-6) F, S

Prerequisites: Admission to graduate standing and prior arrangements with the instructor. Research in one of the fields of chemistry on an individual basis under the supervision of an appropriate faculty member.

511. Theory of the Chemical Bond (3) S

Prerequisite: One year of physical chemistry. An introduction to the principles of molecular formation, electronic configurations in ground states of molecules, resonance energies, electronegativity, bond energies, hybrid bonds, three center bonds, calculation of bond lengths, and ionization potentials. (3 hours lecture per week.)

COMMUNICATION

IN THE DIVISION OF HUMANITIES

101. Reporting and Writing (3) F

Introduction to news reporting and writing, with emphasis on news gathering, evaluation, and the principles of clarity and conciseness. Typing ability recommended.

102. Reporting and Writing (3) 5

Prerequisite: Communication 101 or permission of instructor. Concentration on writing of more advanced news stories and news features. Typing ability required.

218A. Introduction to Photography (2) F, S

An introductory lecture and laboratory course in photographic theory and the application of photographic principles.

218B. Communications Photography (2) F, S

A lecture and laboratory course applying photographic principles to the requirements of mass communications.

331. News Communication (3) F

An introduction to the news communication media, with experience in news writing. Recommended for credential candidates. (Not open to students with credit in Communication 101–102.)

332. Copy Editing (3) F

Practice and theory of editing informational materials for publication in newspapers and magazines, and for presentation on radio and television.

333. Mass Communication in Modern Society (3) S

The basic structure and the interrelationships of newspapers, magazines, films, radio, television, in terms of their significance as social instruments and economic entities in modern society.

334. Feature Article Writing (3) 5

Non-fiction writing for newspapers and magazines, including study of sources, methods, and markets. Open to non-majors.

335. Reporting of Public Affairs (3) S

Coverage in depth of significant events pertinent to operations of governmental units and related organizations.

338. Newspaper Production (3) F, S

Prerequisite: Permission of the instructor. A lecture and activity course in which members of the class constitute the editorial staff of the College newspaper. The group meets four hours per week for critiques in news reporting, writing, editing and makeup, followed by production. With consent of instructor, the course may be repeated up to a maximum of 9 units credit.

353. Advertising Copy and Layout (3) F

Writing of copy and layout of advertisements, based on study of sales appeals, attention factors, and illustrations.

358A,B. Publications Production (2,2) F, S

A workshop for students engaged in the production of annual, quarterly, monthly, and other types of student publications, as scheduled by appropriate college authorities. Activities will include writing, editing, photography, art work, and layout.

361. Theory and Practice of Public Relations (3) F

Examination of basic principles of public relations and their application in noncommercial as well as commercial fields, including industry, education, government and welfare.

Communication; Comparative Literature

371. Radio-Television News and Public Affairs (3) S

Theory and practice of covering news events and public affairs for radio and television. Student material will be prepared for broadcast locally.

380. Introduction to Radio and Television (3) F

The history and development of the broadcasting industry and its impact and influence on our society. A study of the basic broadcast practices, audiences, production, and programming. (Same as Drama 380.)

401. Report Writing (3) F

Planning, organizing and writing of various kinds of reports for business, educacation and government. Consideration will be given to use of graphic aids and preparation of copy for reports that are to be printed. Recommended for nonmajors.

403. Technical Writing (3) F

The study of uses of technical writing in industry, science and engineering, and the completion of written assignments designed to test understanding of, and provide experience with various forms.

425. History and Philosophy of American Mass Communication (3) F

The development of American mass communication beginning with newspapers and periodicals and continuing through radio and television. Includes ideological, political, social and economic aspects.

426. World Press and Propaganda Analysis (3) F

Examination of major news communication systems, both democratic and totalitarian, and the means by which news and propaganda are conveyed internationally.

427. Seminar on Current Issues in Mass Communication (3) S

Prerequisite: Consent of instructor. Consideration of problems such as the extent to which the mass media should be regulated by the government, "objective" versus "interpretive" news reporting, and ethical and legal questions of particular cases.

439. Mass Media Internship (2) F, S

According to his vocational preference, the student serves a supervised internship with a newspaper, magazine, radio or television station, press association, advertising agency, or public relations firm.

448A,B. Special Projects in Mass Communications (2,2) F, S

Prerequisite: Consent of the department chairman. Individually supervised mass media activities, on and off campus. Projects may involve newspapers, magazines, radio, television, and public relations agencies.

COMPARATIVE LITERATURE

IN THE DIVISION OF HUMANITIES

312. The Bible as Literature (3) F. S.

The evolution of major ideas and attitudes in the Old and New Testaments; the influence of the Hebraic-Christian tradition in shaping the values of Western civilization.

315. Classical Mythology in World Literature (3) F

The origins, elements, forms and functions of Classical mythology in works from the earliest times to the present.

332. Medieval Literature of Western Europe (3) S

Representative works in translation, from Beowulf to Dante.

333. Literature of the Renaissance (3) F

Major phases of the Renaissance as a literary movement, from Erasmus to Montaigne and Cervantes.

373. Masters of Russian Literature (3) S

Reading, discussion, and interpretation of selected works by Pushkin, Dostoyevsky, Tolstoy, Chekhov, Pasternak, and others, and their relationship to Western literature.

375. Hispanic Literature and Culture (3) S

A survey of Hispanic contributions to world culture, with emphasis on understanding contemporary Latin American civilization.

425. Oriental Literature (3) F

A study of selected translations of Indian, Chinese and Japanese literature.

453. The Novel in France and Germany (3) S (Formerly 353)

Reading, discussion, and interpretation of outstanding novels in translation with a view toward determining some principles of the narrative arts. Emphasis on Goethe, Stendahl, Flaubert, Mann, Kafka, Proust, and others.

473A,B. Analysis of Drama (3,3) F, S

Reading, discussion and interpretation of great plays of the world in translation, emphasizing them as literature for performance. First semester from ancient Greece through the mid-nineteenth century; second semester, from Ibsen to the present. (Same as Drama 473A,B.)

582. Graduate Seminar: Dante (3) S

DRAMA

IN THE DIVISION OF FINE AND APPLIED ARTS

211. Introduction to Oral Interpretation (3) F, S

Prerequisite: Speech 101, a high school speech course, or consent of instructor. A fundamentals course devoted to theory, methods, and practice in the performance of oral communication of different types of literature.

271. Introduction to Theatre Arts (3) F, S

A study of the evolution of theatre, motion-pictures, radio and television as composite arts. Emphasis is placed on the visual and production aspects as influenced by different cultures, traditions, and technologies. Field trips to certain significant productions.

272. Understanding Theatre (3) F, S

A non-technical survey course for the general student leading to an appreciation and understanding of the theatre as a medium of communication and entertainment and as an art form. Field trips to certain significant productions.

273A,B. Acting (3,3) F, S

Theories of style and the visual aspects of characterization appropriate to the demands of major world dramaturgy. Practice of techniques in the art of acting.

276A,B. Beginning Stagecraft (2,2) F, S

Theory and practice in the technical crafts of the theatre in the interrelation of the execution of design, construction, painting, makeup, lighting, and costuming the play.

311. Oral Interpretation (3) F, S

Prerequisite: Drama 211 or consent of instructor. The principles and practice of reading aloud from the printed page. Analysis of selections from prose and poetry are emphasized. The development of voice control and projection of idea and motion.

314A,B. Reading Theatre (3,3) F, S

Prerequisite: Drama 211. Oral reading in which the emphasis is placed on group and individual reading of dramatic literature. The first semester will emphasize modern and contemporary dramatic literature and the second semester will include selections from the Elizabethan, Renaissance and Romantic periods.

364. Seminar in Play Writing (3) S

Prerequisite: Evidence of student's previous interest in creative writing and consent of the instructor. Study of superior models, development of style, and group criticism and evaluation of each student's independent work. (Same as English 364.)

373A,B. Advanced Acting (3,3) F, S

Prerequisite: Drama 273A,B. A study of historical theories and techniques of styles of acting as an art form. The first semester will include Greek through Neo-classic periods and the second semester will include the 18th century to contemporary styles.

374A,B. Dance Theatre and Production (2,2) F, S

Prerequisite: Physical Education 143 or the equivalent or consent of instructor. Theory and practice of creative and expressive movement in relation to the theatre and dance production.

376A,B. Stagecraft (2,2) F, S

Technical theatre practices including study of design, equipment, construction, scene painting, stage make-up, lighting, and costuming. Experience is provided in the actual mounting of plays.

377A,B. Costume and Makeup (2,2) F, S

Prerequisite: Stagecraft 376A or permission of instructor. Principles and theory of costume and makeup for stage and television including both historical and contemporary techniques and application.

378A,B. Experimental Theatre (3,3) F, S

An activity course in which dramatic principles are applied through production of full length and one-act plays using various styles of acting and staging. Opportunities are given for student directors to prepare and to present experimental productions for invited audiences.

379A,B. Play Production (3,3) F, S

Theory and practice in the rehearsal and performance of various types of dramatic works. Entire production and group scenes are prepared for invited audiences and for the general public.

380. Introduction to Radio and Television (3) F, S

The history and development of the broadcasting industry and its impact and influence on our society. A study of the basic broadcasting practices, audiences, production and programming. (Same as Communication 380)

382. Television Techniques (3) F, 5

Survey of the development and current trends in television techniques, programming, and production.

383. Radio and Television Writing (3) S

Study of the principles and practices and experience in the writing of scripts and other forms of continuity for both radio and television.

402. Dramatic Activities for Children (3) F, S

Theory and practice in the use of creative dramatics, storytelling, puppetry, assembly programs, role-playing, and other aspects of dramatics as tools for the teacher, group worker, recreation major, and others who work with children.

470A,B. Directing (3,3) F, S

Theory and practice in the directing of scenes and one-act plays under faculty supervision. With consent of the department, a second semester student may direct a three-act play.

473A,B. Analysis of Drama (3,3) F, S

Prerequisites: Upper division standing. Reading, discussion and interpretation of great plays of the world in translation, emphasizing them as literature for performance. First semester, from ancient Greece through the mid-nineteenth century; second semester, from Ibsen to the present. (Same as Comparative Literature 473A,B)

474. Special Studies in Dance Theatre and Production (1-3) F, S

Prerequisites: Drama 374A,B or the equivalent and consent of instructor. Opportunity for intensive study in theory and practice in Dance Theatre and Production. May be repeated to a maximum of eight units but no more than three units of credit may be obtained in a single semester.

475A,B. History of the Theatre (3,3) F, S

Development of the physical stage, styles of acting, makeup, costuming types, and forms of drama from ancient to modern times. (A) From Ancient Greece through the mid-nineteenth century; (B) From Ibsen to the present including history of theatre in America.

499. Independent Study (1-3) F, S

Open to advanced students in Drama with the consent of the department chairman. May be repeated for credit.

DRAMA EDUCATION

IN THE DIVISION OF FINE AND APPLIED ARTS (Offered by the Department of Drama)

442. Teaching Drama in the Secondary School (2-3) F, S

Prerequisite: Education Found. 311, Education Sec. 340, senior standing, admission to Teacher Education, or consent of instructor. Objectives, methods and materials for teaching drama in secondary schools required before student teaching by majors in drama for the Standard Teaching Credential with Specialization in Secondary Teaching. Students without teaching experience must register for three (3) units of credit and must allow sufficient time in their schedules at the same hour each day so that they can serve as teacher aides in secondary schools.

484. Educational Television Production (3) F, S

Theory and practice in the activities, methods of lesson preparation, and presentation of educational television productions.

749. Student Teaching in Drama in the Secondary School (6) F, S

See page 156 under Secondary Education for description and prerequisites.

ECONOMICS

IN THE SCHOOL OF BUSINESS ADMINISTRATION AND ECONOMICS

100. American Economic History (3) F, S

The evolution of American economic institutions and their relation to the development of industry, commerce, transportation and finance.

200. Principles of Economics (5) F

An introduction to the principles of economic analysis and policy including the central problem of scarcity, basic economic institutions of the United States, resource allocation and income distribution, economic stability and growth, and the role of public policy. Open only to junior transfers.

200A. Principles of Economics (3) F, S

The first half of a two-semester sequence. An introduction to the principles of analysis and policy including the central problem of scarcity, basic economic institutions of the United States. Emphasizes economic stability and growth and the role of public policy.

200B. Principles of Economics (3) F, S

Prerequisite: Economics 200A, or equivalent. The second half of a two-semester sequence. Continuation of an introduction to the principles of economic analysis and policy. Emphasizes resource allocation and income distribution, international economics, comparative economic systems, and the role of public policy.

201. The American Economy (3) F, S

A survey of the basic economic concepts and processes of a private enterprise economy. Included is a consideration of such topics as resource allocation, income distribution, problems of economic stability and growth and the appropriate role of government in a private enterprise society. Not open to students majoring in Business Administration and Economics.

300. Basic Economics (3) F, S (Open only to graduate students)

A concentrated study of the principles of economic analysis and policy and the basic economic institutions of the United States.

302. Intermediate Economic Analysis (3) F

Prerequisite: Economics 200, or 200A,B, or 201, or 300, or equivalent. A theoretical formulation of the principles of the determination of prices and output of goods and productive services in a market system.

303. Intermediate Economic Analysis (3) S

Prerequisite: Economics 200, or 200A,B, or 201, or 300, or equivalent. A theoretical formulation of the principles of the determination of the level and fluctuations in real and money income, and the forces underlying economic growth.

322. European Economic History (3) F

Prerequisite: Consent of the instructor. The evolution of European economic institutions and their relation to the development of industry, commerce, transportation, and finance in the principal European countries.

324. Money and Banking (3) F, S

Prerequisite: Economics 200, or 200A,B, or 201. A study of the structure and operation of commercial banks and financial institutions including a consideration of the impact of money and capital market developments on economic activity. (Same as Finance 324.)

326. Labor Economics (3) F

Prerequisite: Economics 200, or 200 A,B, or 201. An analysis of the basic economic and institutional influences operating in labor markets. Considers relevant aspects of resource allocation, income distribution, economic stability, and growth.

362. Introduction to Econometrics (3) F, S

Prerequisites: Q.M. 361 (to have been taken or being taken concurrently) and Economics 200 A,B. An introduction to basic mathematical tools and their application in economic analysis. The measurement and verification of economic relationships by statistical methods. Consideration of some econometric models. (Same as Quantitative Methods 362)

401. Government and Business (3) S

Prerequisites: Economics 200, or 200 A,B, and 302. An economic study of business organization, conduct and performance followed by an analysis of the rationale and impact of public policy on various segments of business and business activities, including the regulated industries, sick industries, and antitrust policy.

402. Monetary and Fiscal Policy (3) F

Prerequisites: Economics 200, 303. A study of the techniques of monetary and fiscal policy and an appraisal of their relative roles in promoting economic stability and growth.

403. Comparative Economic Systems (3) F, S

Prerequisites: Economics 200, 200A,B, 300, or consent of the instructor. An analytical comparison of unplanned and planned systems of economic organization as to their theoretical foundations, existing economic institutions, and achievements and failures; capitalism, socialism, communism, and fascism will be examined as exemplified by the United States, England, Russia and pre-war Germany.

404. The Soviet Economy (3) S

Prerequisite: Economics 200, or 200 A,B, or 201. An analytical evaluation of Soviet economic development including the structure and performance of the Soviet economy and problems of planning and control.

405. History of Economic Thought (3) S

Prerequisites: Economics 302, 303. A study of the development of economic thought as reflected in the evolution of major schools of thought and of leading individual economists as they influenced economic thought and policy.

421. International Trade (3) F

Prerequisite: Economics 200, or 200 A,B, or 201. An examination of the theory of international trade and the means and significance of balance of payments adjustments, with an analysis of past and present developments in international commercial and monetary policy. (Same as Marketing 421)

431. Economic Development: Analyses and Case Studies (3) S

Prerequisites: Economics 200, or 200 A,B, or 201, and consent of instructor, or equivalent. An examination of the processes of economic growth with special reference to developing areas. Considers capital formation, resources allocation, relation to the world economy, economic planning, and institutional factors, with appropriate case studies.

451. Economics of Taxation (3) S

Prerequisite: Economics 200, or 200 A,B, or 201. A study of government finance at the federal, state, and local levels with particular reference to administrative problems of public finance, the ethical aspects of taxation, and the impact of taxation and spending on resource allocation and income distribution.

452. Economics of Location (3) S

Prerequisite: Economics 200, or 200 A,B, or 201. The theory and principles underlying the location of economic activity.

499. Independent Study (3) F, S

Prerequisites: Economics major or concentration, senior standing and approval by the department chairman. Open to qualified undergraduate students desiring to pursue directed independent inquiry. May be repeated for credit.

510. Competition, Monopoly, and Public Policy (3) S

Prerequisite: Economics 200, or 300, or 302. An examination of the economic implications of various forms of market structure and business conduct and considers the application of public policy to various segments of business and business activities, including antitrust policy and regulation of business.

511. Economic Problems and Public Policy (3) F

Prerequisite: Economics 200, or 300, or 303. An examination of the nature and implication of the major economic problems facing the economy and an evaluation of current and alternative policies for their solution. Problems considered will include price level stabilization, balance of payments equilibrium, economic growth, and cyclical and technological unemployment.

EDUCATION, ELEMENTARY

IN THE DIVISION OF EDUCATION

331. Elementary School Principles, Curricula, and Methods (8) F, S

Prerequisites: Educ. Found. 311, Engl. 433, Art 380, Music 333, P. E., 333, Math. Ed. 100A, and admission to teacher education. Principles, curricula, methods, and materials of elementary school instruction, with major emphasis on reading, language arts, arithmetic, social studies, and science. Includes audio-visual instruction, methods, and techniques. Required field work. Required of all candidates for the

Standard Teaching Credential with Specialization in Elementary School Teaching or its equivalent. (6 hours lecture, 2 hours activity, and 3 hours laboratory per week.)

339. Student Teaching in the Elementary School and Student Teaching Seminar (8) F, S

Prerequisites: Educ. Elem. 331 and admission to student teaching. Participation in a regular elementary school teaching program for the greater part of every school day. Includes a two-hour seminar each week in problems and procedures of elementary school teaching. Concurrent enrollment in other professional education courses is discouraged.

431. Principles and Curricula of the Elementary School (2) F, S

Prerequisite: Educ. Elem. 311 or consent of the instructor. An introductory course in elementary education. Stress on major principles and basic curricular considerations. Importance of the elementary school system to society.

432. Teaching—in the Elementary School

Prerequisites: Educ. Elem. 311 or consent of the instructor. A series of courses, listed dually in the Division of Education and in the other appropriate divisions, dealing with objectives, methods, and materials of teaching the various subjects and areas in the elementary schools. The courses are professional education courses and applicable toward credential requirements. Detailed descriptions of the courses are to be found in the materials of other departments and divisions within this catalog. For. Lang. Ed. 432. Teaching Foreign Languages in the Elementary Schools (2) F. S.

The following courses have been designed specifically for students who are part-time students:

Educ. Elem. 432R. Teaching Reading in the Elementary School (2) F, S Eng. Ed., 432. Teaching Language Arts in the Elementary School (2) F, S Math. Ed. 432. Teaching Mathematics in the Elementary School (2) F, S Sci. Ed. 432. Teaching Science in the Elementary School (2) F, S Soc. Sci. Ed. 432. Teaching Social Sciences in the Elementary School (2) F, S

432R. Teaching Reading in the Elementary School (2) F, S

Prerequisite: Educ. Found. 311 or consent of the instructor. Reading process, sequential development of reading skills, relationship of developmental reading to child growth and development, and place of reading in the culture.

437. Problems in Early Elementary Education (3) S

Prerequisites: Educ. Elem. 339 and consent of instructor. Study of current literature and recent research in the area of education of young children through individual and group study. Emphasis will be placed on problems centered in cognitive processes, content structure and instruction at the early elementary education level.

473. Mental Retardation: Educational Development (3) F

Prerequisite: Educ. Sch. Serv. 471. Organic and cultural basis of mental retardation, including social, psychological, and vocational problems. Child growth, sensory development, learning characteristics of mentally retarded, and techniques of working with parents will be considered.

Elementary, Foundations of Education

474. Curriculum and Methods for Teaching the Mentally Retarded (3) S

Prerequisite: Educ. Elem. 473. Curriculum development, methods, and materials for teaching the educable and trainable mentally retarded at the elementary and secondary levels.

475. Observation and Individual Instruction with the Mentally Retarded (3) F

Prerequisite: Educ. Elem. 474. Supervised observation and participation with the educable and the trainable mentally retarded at both the elementary and secondary levels of education. Three hours of observation and participation per week plus one and one-half hours of lecture and discussion.

481. Analysis of Reading Difficulties (3) F, S

Prerequisite: Educ. Elem. 339 or 739 and consent of the instructor. Analysis and diagnosis of reading difficulties. Psychological bases of the reading process. Techniques and methods of prevention and treatment.

537. Seminar for Elementary Education (3) S

Prerequisite: Educ. Elem. 339 or 739 or consent of the instructor. Persistent problems in elementary education and survey of literature; causes and solutions for these related problems. Application of scientific method to educational problems, sources of education research, and to techniques of cooperative thinking.

739. Student Teaching in the Elementary School and Student Teaching Seminar (8) F, S

Prerequisites: Educ. Elem. 331, admission to student teaching, and postgraduate status. Participation in a regular elementary school teaching program for the greater part of every school day. Includes a two-hour seminar each week in problems and procedures of elementary school teaching. Concurrent enrollment in other professional education courses is discouraged.

779. Student Teaching With Mentally Retarded Pupils (4) S

Prerequisites: Educ. Elem. 475 and Educ. Elem. 339 or 739 or Educ. Sec. 749. Student teaching in a special class program for the educable or trainable mentally retarded at either the elementary or secondary level.

EDUCATION, FOUNDATIONS IN THE DIVISION OF EDUCATION

Social Foundations of Education; Historical, Philosophical Foundations of Education (4) F, S

Prerequisite: Admission to teacher education or consent of the instructor. Survey of social, historical, and philosophical foundations of education from ancient times to the present, discussed in the light of their effect upon modern educational theory and practice.

311. Psychological Foundations of Education (4) F, S

Prerequisite: Psych. 101. Prerequisite to other courses in the professional education sequence. Learning theory, thinking processes, and human growth and development. 3 units lecture; 1 unit activity.

312. Human Growth and Development (3) F, S

Prerequisite: Psych. 101. A comprehensive study of human growth and development with emphasis on childhood, adolescence, and middle and old age. Includes mental, social, emotional, and physical development.

402. Comparative Education (3) F

Prerequisite: Educ. Elem. 331 or Educ. Sec. 442 or consent of the instructor. A study of (1) problems, factors and efforts in education throughout the world, and (2) the philosophies and practices in administration, control, financing and operation of educational systems of selected areas and countries.

403. History of Education (3) F

Prerequisites: History of World Civilization and Educ. Elem. 331 or Educ. Sec. 442 or consent of the instructor. The main streams of educational history in Europe and America, with particular emphasis on the ways these main streams have affected the current scene in the United States.

406. Educational Sociology (3) S

Prerequisite: Educ. Elem. 331 or Educ. Sec. 442, or consent of the instructor. The school in the social order; analysis of cultural factors affecting school, and the special culture of the school; consideration of research in selected areas of the school-culture relationship.

501. Philosophy of Education (3) S

Prerequisites: Postgraduate standing and Educ. Elem. 339 or 739 or Educ. Sec. 749, or consent of the instructor. Uses of theories of knowledge, value and reality in dealing with educational problems; application of contemporary systems of thought to education.

503. Foundations for Educational Leadership (3) F, S

Prerequisite: Consent of the instructor. The cultures and values to which schools must contribute: introduction to community sociology, tax systems and public administration; the literature of leadership. Screening for admission to program. Occasional special meetings. Required of all students during first registration in school administration and supervision at this college.

505. Foundations for Improving Instruction (4) F, S

Prerequisite: Educ. Found. 503. The development of a quality program of instruction in both elementary and secondary schools; appraisal of programs of instruction: advanced principles of curricular review and modification.

Evaluation of subject matter competence in area of supervisory specialization. Meets credential requirements in principles of curriculum construction and evaluation; supervision of instruction and curriculum in both elementary and secondary schools.

511. Survey of Educational Research (2) F, S

Prerequisites: Educ. Sch. Serv. 451 or equivalent; teaching experience. Review of descriptive statistics as applied to educational problems. Survey of elements of current research types. Principles of research design.

721. Philosophy and Objectives of Junior College Education (2) F

Prerequisite: Postgraduate standing or consent of instructor. Origins of the junior college movement in higher education in the United States; economic, technological, and social forces creating needs for new and different post-high school education; objectives of junior college education; relationships to secondary and higher education; functions of the junior college; curriculum development and organization; and instructional procedures in junior college teaching.

EDUCATION, SCHOOL SERVICES

IN THE DIVISION OF EDUCATION

351. Principles of Guidance (2) F, S

Prerequisite: Psych. 311 or Educ. Found. 312. Guidance related to educational objectives and needs of youth. Special needs created by size and complexity of the modern educational system and modern society; general requirements, services, organization, and structure of a successful guidance program.

451. Principles of Educational Measurement (2) F, S

Prerequisite: Educ. Found. 311 or Psych. 311. Development, validation, and application of the principles of educational measurement. Construction and use of informal and standardized achievement tests. Summary and interpretation of results of measurement.

452. Counseling Theories and Processes (3) F, S

Prerequisites: Psych. 342 or Educ. Sch. Serv. 351. Introduction to counseling. Dynamics of counselor and client, techniques and processes of various levels, and relation to personality theory. Major project required. Student seeking the credential to teach exceptional children will emphasize the counseling and guidance of the handicapped.

471. Exceptional Children (3) F, S

Prerequisites: Educ. Found. 311 and Educ. Elem. 331, or Educ. Elem. 431, or Educ. Sec. 442. Study of children who deviate from the average in the elementary and the secondary schools; physically handicapped, mentally retarded, gifted, socially maladjusted, emotionally disturbed, and delinquent. Special educational services, curriculum, procedures, and materials necessary to promote their maximum development.

472. Gifted Children (2) F

Prerequisites: Educ. Found. 311 and Educ. Elem. 331, or Educ. Elem. 431, or Educ. Sec. 442. Identification, principles of instruction, grouping, individualized instruction, classroom enrichment. Problem solving and research experiences in science, social studies, and mathematics, reading programs and literature, creative writing, oral language.

491. Audio-Visual Education (2) F, S

Prerequisites: Educ. Found. 311, Educ. Sec. 442, or consent of the instructor. Media in communication, psychological bases, development, curricular function, evaluation. Survey of equipment and materials available, preparation of instructional materials for classroom use. Includes laboratory.

499. Independent Study (1-3) F, S

Prerequisite: Senior or graduate standing, approval of instructor and department prior to registration. Conduct of an individual investigation under supervision of a faculty member; investigation might be an experiment, a library study, or a creative project; only students of demonstrated capacity and maturity will be approved; adequate prerequisite study necessary. May be repeated for credit.

551. Educational and Career Orientation (3) F, S

Prerequisite: Educ. Sch. Serv. 452 or permission of instructor. Principles of evaluating, classifying, and disseminating occupational and educational information in the guidance program; sources of occupational literature, occupational research, vocational surveys, and individual assessment for potential occupational choice. Emphasis on the psychological and sociological implications of career and educational choice.

552. Group Processes in Guidance (3) F, S

Prerequisite: Educ. Sch. Serv. 452 or permission of instructor. Intensive study of dynamics of group process, leadership, role playing, sociometric techniques, and group counseling.

553. Administration and Organization of Pupil Personnel Programs (3) S

Prerequisites: Educ. Sch. Serv. 452, 551 or permission of instructor. Development, organization, and administration of the pupil-personnel services. Analysis and evaluation of pupil personnel services by the case study method, curriculum, counselor competencies, staffing.

554. Laws Relating to Child Welfare (2) S

Prerequisite: Educ. Sch. Serv. 452 or permission of instructor. Study of state, federal, and local laws affecting the child. Educational and statutory regulations will be covered in detail.

555. Individual Diagnosis (3) F, S

Prerequisites: Educ. Sch. Serv. 451, 452. Intensive study of the techniques of individual diagnosis including the synthesis and interpretation of information. Case study and case conference approach to diagnosis.

557A,B. Seminar in School Counseling (1,1) F, S

Prerequisite: Educ. Sch. Serv. 559A or concurrent enrollment in Educ. Sch. Serv. 559B and consent of instructor. Final two-semester terminal sequence for the Master of Science in Education with a concentration in school counseling. Includes terminal project for the degree.

559A,B. Field Work in Pupil Personnel Services (2-6) F, S

Prerequisite: Educ. Sch. Serv. 551, 552, 555, acceptance into the CSCF Pupil Personnel Credential Program and permission of instructor. Guidance and counseling in the school setting under the supervision of local coordinator and college staff. Work assignments vary for school counselors, psychometrists, and child welfare workers. Work in a counseling relationship, parent conferences, and follow-up studies may be repeated for credit up to a maximum of 12 units.

561. Organization of School Systems (3) F, S (formerly 561a)

Prerequisite: Educ. Sch. Serv. 503. Structure, functions, trends, fiscal responsibilities and issues in respect to the government of education at federal, state, county and local district levels. Emphasis on intergovernmental relations and impact at local level.

563. Principles of School Personnel Administration (2) F, S

Prerequisite: Educ. Sch. Serv. 503. Principles of organizational behavior, social processes inherent in effective leadership, and techniques of school personnel management.

566. The Elementary School Principal and Supervisor (3) F, S

Prerequisites: Educ. Sch. Serv. 503, 505, 511, 561, 563. May be taken concurrently with Educ. Sch. Serv. 569. Leadership roles of elementary school principal and supervisor, pupil personnel and instructional program in elementary school; working relations and morale among staff, community and pupils; parent education; relations with central district staff; management and record keeping functions; teacher evaluation. Meets credential requirement.

567A,B. Field Work and Seminar in School Administration (2,2) F, S

Prerequisites: Educ. Sch. Serv. 566 or 586 or concurrent registration, and consent of instructor. Two-semester terminal sequence required for the MS in Education with a concentration in school administration. Includes directed field work in selected public schools and district offices. Meets credential requirement.

586. The Secondary School Principal and Supervisor (3) F, S (formerly 566s)

Prerequisites: Educ. Sch. Serv. 503, 505, 511, 561, 563. May be taken concurrently with Educ. Sch. Serv. 589. Leadership roles of secondary school principal and supervisor, pupil personnel and instructional program in the secondary school; the development and administration of vocational and adult education; working relations and morale among staff, community and pupils; relations with central district staff, the management and record keeping functions; teacher evaluation. Meets credential requirement.

Directed Field Work in Elementary School Administration and Supervision F, S (formerly 569e)

Prerequisites: Educ. Sch. Serv. 566 or concurrent registration. Work in selected elementary schools and district offices. Further details in special publications. Meets credential requirement.

Directed Field Work in Secondary School Administration and Supervision (2) F, S (Formerly 569s)

Prerequisites: Educ. Sch. Serv. 586 or concurrent registration. Work in selected secondary schools and district offices. Further details in special publication. Meets credential requirement.

EDUCATION, SECONDARY

IN THE DIVISION OF EDUCATION

340. Principles and Curricula of Secondary Education (3) F, S (formerly 300)

Required first course in the professional sequence for the Standard Teaching Credential with Specialization in Secondary Teaching. Principles of secondary education in the United States: organization, curriculum, and teaching practices. Correlated with methods and materials courses in the major. Two hours of observation per week in selected junior and senior high school classes. Application for admission to teacher education is included.

442. Teaching—in the Secondary School

A series of courses, listed dually in the Division of Education and in the other appropriate divisions, dealing with objectives, methods, and materials of teaching the various subjects and areas in secondary schools. Required, before student teaching, of students presenting majors in these areas or subjects for the General Secondary Credential or the Standard Teaching Credential with Specialization in Secondary School Teaching. Students without teaching experience register for three units credit, and must allow sufficient time in their schedules, at the same hour each day, so that they can serve as teacher aides in high schools.

Prerequisites: 20 units in the major, Education Sec. 340, Education Found. 311,

and senior standing; or consent of the instructor.

Art Ed. 442. Teaching Art in the Secondary School (2-3) F

Bus. Ed. 442. Teaching Business in the Secondary School (2-3) F

Drama Ed. 442. Teaching Drama in the Secondary School (2-3) S

Engl. Ed. 442. Teaching English in the Secondary School (2-3) F, S

For. Lang. Ed. 442. Teaching Foreign Languages in the Secondary School (2-3) F

Journ. Ed. 442. Teaching Journalism in the Secondary School (2-3) S

Math. Ed. 442. Teaching Mathematics in the Secondary School (2-3) 5

Mus. Ed. 442. Teaching Vocal Music in the Public Schools (2-3) S

Mus. Ed. 443. Teaching Instrumental Music in the Public Schools (2-3) S

P.E. 442. Teaching Physical Education in the Secondary School (2-3) F

Sci. Ed. 442. Teaching Science in the Secondary School (2-3) F, S

Soc. Sci. Ed. 442. Teaching Social Sciences in the Secondary School (2-3) F, S

Speech Ed. 442. Teaching Speech in the Secondary School (2-3) F

443. Principles of Core Curriculum (2) 5 (Planned for 1966-67)

Prerequisites: Teaching experience or consent of the instructor. Unity and interrelationships of human learning and behavior and the curricular processes and arrangements by which this may be achieved. Development, principles, and application of core curricula; guidance functions; evaluation; and roles of the teacher.

445. Junior High School Education (3) F

Prerequisites: Educ. Sec. 442 or Educ. Elem. 331 or consent of instructor. Principles and procedures for developing the junior high school program. Purposes, curriculum, and organization of the junior high school are stressed including examination of recent innovations and proposals. Designed for students with elementary or secondary backgrounds who plan to teach in the junior high school.

446. Secondary School Curriculum (3) F, S

Prerequisites: Student teaching or teaching experience or consent of instructor. Fundamentals of curriculum development. Current issues within secondary education. Curricular organization and current practices. Survey and evaluation of newer curricular programs. Paper or project of creative, analytic or review of literature type is required. Designed for experienced teachers interested in curriculum development and/or instructional supervision.

547. Seminar for Secondary Education (3) F (Planned for 1966-67)

Prerequisite: Educ. 749 or consent of the instructor. Persistent problems in secondary education and survey of related literature; causes of and solutions for these problems. Application of scientific method to educational problems, sources of educational research, and to techniques of cooperative thinking.

744. Principles of Junior College Teaching (2) S

Prerequisite: Postgraduate standing or consent of instructor. The psychological foundations of junior college teaching, including learning theory; cognitive processes; measurement and evaluation of learning.

749. Student Teaching in-in the Secondary School (6) F, S

Prerequisites: Educ. Sec. 442, admission to student teaching. Student teaching for the General Secondary Credential or the Standard Teaching Credential with Specialization in Secondary School Teaching. Participation in a regular secondary school teaching program for half days for a full semester or full days for a half semester. Includes a seminar each week in problems and procedures of secondary school teaching, under the direction of the respective college supervisor. Beginning with the fall semester, 1965, students with majors in Art will divide their student teaching between two semesters, and will register for 3 units credit each semester.

Art Ed. 749. Student Teaching in Art in the Secondary School (3,3) F, S

Bus. Ed. 749. Student Teaching in Business in the Secondary School (6) F, S

Education, Secondary; English

Drama Ed. 749. Student Teaching in Drama in the Secondary School (6) F, S

Engl. Ed. 749. Student Teaching in English in the Secondary School (6) F, S

For. Lang. Ed. 749. Student Teaching in Foreign Languages in the Secondary School (6) F, S

Journ. Ed. 749. Student Teaching in Journalism in the Secondary School (6) F, S

Math Ed. 749. Student Teaching in Mathematics in the Secondary School (6) F, S

Mus. Ed. 749. Student Teaching in Music in the Secondary School (6) F, S

P.E. 749. Student Teaching in Physical Education in the Secondary School (6) F, S

Sci. Ed. 749. Student Teaching in Science in the Secondary School (6) F, S

Soc. Sci. Ed. 749. Student Teaching in Social Science in the Secondary School
(6) F, S

Speech Ed. 749. Student Teaching in Speech in the Secondary School (6) F, S

799. Junior College Student Teaching and Seminar (4) F, S

Prerequisites: Educ. Sec. 744. Student teaching in the student's major field in a cooperating junior college for one semester. Weekly seminar on curriculum development and organization in the junior college, instructional procedures and materials, and instructional problems of the junior college student teacher.

ENGLISH

IN THE DIVISION OF HUMANITIES

For World Literature in English translation see courses under COMPARATIVE LITERATURE.

101. Composition and World Literature (3) F, S

Analytical and critical writing based on the study of representative works from Classical and Biblical literature to the Renaissance.

102. World Literature and Composition (3) F, S

Prerequisite: English 101 or the equivalent. The study of representative works from the Renaissance to the modern age, as a basis for continuing practice in analytical and critical writing.

201. Analysis of Literary Forms (3) F, S

The main literary forms—prose fiction, poetry, and drama—are studied and analyzed. Various critical methods are applied to representative works mainly from English and American literature. Especially recommended for prospective teachers of literature.

202. Analysis of the Short Story (3) F, S

Critical analysis of selected American and European short stories, aimed at an understanding of the structure and technique of the short story.

211. Masters of British Literature (3) F

Prerequisite: English 101, 102, or consent of instructor. An introduction to major periods and movements, major authors, and major forms through 1760.

212. Masters of British Literature (3) S

Prerequisite: English 101, 102, or consent of instructor. An introduction to major periods and movements, major authors, and major forms from 1760 through modern times.

301. Advanced Composition (3) F, S

Exercises in creativity, analysis, and rhetoric as applied in expository writing.

303. The Structure of Modern English (3) F, S

Prerequisite: Junior standing. The grammar of contemporary English applied to problems in writing. Modern English usage. Strongly recommended for all teacher candidates.

321. American Literature to Whitman (3) F, S (Formerly 221)

Emphasis on major writers: Hawthorne, Poe, Melville, Emerson, Thoreau, Whitman, and others.

322. American Literature from Twain to the Moderns (3) F, S (Formerly 222)

Emphasis on Twain, James, Crane, Hemingway, Faulkner, O'Neill, Frost, Eliot.

333. Chaucer (3) F, S

Emphasis on The Canterbury Tales, read in Middle English. Close attention to the vocabulary, structure, and pronunciation of Chaucer's language, as indispensable to literary appreciation.

334. Shakespeare (3) F, S

Intensive study of selected major plays illustrating Shakespeare's development, dramatic art, and insight into human nature.

335. Elizabethan Drama (3) S

Prerequisite: English 334 or consent of the instructor. Marlowe, Kyd, Greene, Jonson, and others are studied as representative of dramatic trends in Elizabethan England.

336. Elizabethan Poetry and Prose (3) F

The poetry of Wyatt and Surrey, Jonson, Marlowe, Sidney, Spenser, and others; and the prose of Bacon, Greene, Lodge, Lyly, Nashe, and others.

341. Milton and the Seventeenth Century (3) F, S

A study of the development of Milton's art and of the ideological backgrounds of his thought. Includes also Donne, the metaphysical poets, the Cavaliers, Burton, Browne and Bunyan.

342. The Age of Reason in English Literature (3) F

Dryden, Swift, Pope, Johnson, Boswell, Addison, and Steele. The Restoration, the Age of Reason, and foreshadowings of Romanticism.

343. The Romantic Movement in English Literature (3) S

Burns, Blake; Wordsworth, Coleridge; Byron, Shelley, and Keats. The reaction against rationalism, the rise of revolutionary and liberal thought, humanitarianism, and emphasis on individual creativity.

344. Literature of the Victorian Period (3) F, S

Tennyson, Browning, Arnold, Rosetti, Swinburne, Morris, Pater, Wilde and others. The effort to synthesize rationalism, romanticism, and realism in an era of materialism and puritanism.

345. History and Development of the English Novel (3) F, S

From the Renaissance to the moderns, with emphasis on the eighteenth and nineteenth centuries: Defoe, Richardson, Fielding, Smollett, Austen, Bronte, Thackeray, Dickens, Eliot, Meredith, Hardy.

362. Seminar in Fiction Writing (3) F

Prerequisite: Evidence of student's previous interest in creative writing and consent of the instructor. Study of superior models, development of style, and group criticism and evaluation of each student's independent work.

364. Seminar in Play Writing (3) S

Prerequisite: Evidence of student's previous interest in creative writing and consent of the instructor. Study of superior models, development of style, and group criticism and evaluation of each student's independent work. (Same as Drama 364)

366. Seminar in Poetry Writing (3) S

Prerequisite: Evidence of student's previous interest in creative writing and consent of the instructor. Study of superior models, development of style, and group criticism and evaluation of each student's independent work.

368. Creative Writing Projects (3) S

Prerequisite: English 362, 364, 366, or consent of the instructor.

423. Early American Literature (3) F, S

Prerequisite: English 321 or 6 other units of American Literature. Literature of Colonial and Revolutionary America, including the Puritans, 18th Century deism and rationalism, and the literary antecedents of American democratic thought.

433. Children's Literature (3) F, S (Formerly English Ed. 433)

A study of masterpieces of the world's literature for children. Illustrates literary qualities appealing to children and demonstrates the ways in which children's literature reflects the particular cultural differences of the various Oriental, Classical and modern cultures.

435. Shakespeare's History Plays and Comedies (3) S

An intensive study of the history plays and comedies, designed to provide a broader comprehension of Shakespeare's dramatic art, social and historical commentary, and human insight.

451. Philosophical Backgrounds of Modern Literature (3) F, S

The connection between representative writers and such thinkers and philosophers as Freud, Spengler, Schopenhauer, Nietzeshe, and Kierkegaard. (Same as Philosophy 451)

462. Modern British and American Novels (3) F, S

Prerequisites: Survey of English, American, or World literature; an upper division literature course; or consent of the instructor. The development of modern British and American novels from 1900 to 1950.

463. Contemporary British and American Novels (3) S

The novel in English since World War II.

464. Modern British and American Drama (3) F, S

Prerequisites: Survey of English, American, or World literature; an upper division literature course; or consent of the instructor. The development of British and American drama from 1900 to the present.

466. Modern British and American Poetry (3) F, S

Prerequisites: Survey of English, American or World literature; an upper division literature course; or consent of the instructor. The development of British and American poetry from 1900 to the present.

490. History of the English Language (3) 5

Prerequisite: Senior or graduate standing. The historical development of English vocabulary, phonology, morphology, and syntax from Indo-European to modern American English.

491. Senior Seminar: Studies in Chaucer (3) 5

Prerequisites: English 333, B average or better, or consent of the instructor. Emphasis on Troilus and Criseyde and other works.

492. Senior Seminar: Studies in Renaissance Literature (3) S

Prerequisites: English 334, 335, 336, or 435, B average or better, or consent of the instructor. Directed research.

495. Senior Seminar: Studies in New England Transcendentalism (3) S

Prerequisites: English 321 and 322, B average or better, or consent of the instructor. Emphasis on the relationship between philosophy and literature.

496. Senior Seminar: Studies in the American Novel (3) S

Prerequisites: B average or better, English major, or consent of the instructor. Directed research.

498. Senior Seminar: Literary Criticism (3) F

Prerequisites: B average or better, English major, or consent of the instructor. Theory and application to selected texts.

499. Independent Study (3) F, S (Formerly 580)

Open to advanced students in English with the consent of the department chairman. May be repeated for credit.

- 570. Graduate Seminar: Problems in Language (3) F, S
- 572. Graduate Seminar: Problems in Shakespeare (3) F, S
- 573. Graduate Seminar: Milton (3) (Offered in alternate years)
- 574. Graduate Seminar: Coleridge and Blake (3) F
- 575. Graduate Seminar: Melville (3) S
- 576. Graduate Seminar: Twain (3) F
- 577. Graduate Seminar: Hawthorne and Faulkner (3) F
- 578. Graduate Seminar: Joyce (3) F
- 579. Graduate Seminar: Problems in Literary Theory (3) S
- 580. Special Graduate Projects (3-6) F, S

Research projects in areas of specialization beyond regularly offered course work. Oral and written reports.

ENGLISH EDUCATION

IN THE DIVISION OF HUMANITIES

(Offered by the Department of English)

432. Teaching Language Arts in the Elementary School (2) F, S

Prerequisite: Education Found. 311, admission to teacher education. The importance of the language arts to satisfactory personal, social, and professional life. Methods to help develop in children the skills needed for listening, speaking, reading, and writing are studied and their effectiveness evaluated.

442. Teaching English in the Secondary School (2-3) F, S

Prerequisites: Education Found. 311, Admission to Teacher Education. Principles, methods, and materials of teaching English in the secondary school.

571. Graduate Seminar: Problems in the Teaching of Composition (3) F, S

749. Student Teaching in English in the Secondary School (6) F, S

See page 156 under Secondary Education for description and prerequisites.

FINANCE

IN THE SCHOOL OF BUSINESS ADMINISTRATION AND ECONOMICS

(Offered by the Department of Accounting and Finance)

324. Money and Banking (3) F, S

Prerequisite: Economics 200, or 200A,B, or 201. A study of the structure and operation of commercial banks and financial institutions including a consideration of the impact of money and capital market developments on economic activity (same as Econ. 324).

330. Business Finance (3) F, S

Prerequisites: Accounting 101B, or 200, and Economics 200, or 200B. Sources and uses of long-term and short-term capital in business firms, and analysis of business finance situations.

331. Financial Analysis (3) F, S

Prerequisite: Finance 330. The techniques of financial analysis and their application to business situations.

334. Principles of Insurance (3) S

Prerequisites: Economics 200, or 200B, and Quant. Meth. 361. Principles of life, casualty and liability insurance; individual and group insurance programs; methods of establishing risks and rates.

336. Principles of Real Estate (3) F

Prerequisite: Economics 200, or 200B. Survey of urban real estate principles and practices; structure and growth of cities; basis of real property values; real estate development and financing.

337. Real Estate Finance (3) S

Prerequisite: Finance 336. Instruments of real estate finance; factors affecting the supply and cost of real estate credit; primary and secondary mortgage markets; real estate as an investment medium.

431. Capital and Money Markets (3) F

Prerequisites: Finance 330 and either Finance 324 or Economics 324, or consent of instructor. Role of capital and money markets in the American economy; markets for new corporate and government issues; secondary markets; interrelation of financial institutions; factors influencing yields and security prices.

432. Investment Principles and Practices (3) F

Prerequisite: Finance 330. Principles underlying the selection and management of portfolios, analysis of different types of corporate securities—commercial, industrial, and public utility; the role of mutual funds and investment trusts.

433. Problems in Business Finance (3) S

Prerequisite: Finance 331. Comprehensive case studies including problems of estimating funds requirements, long-term financial planning, controlling and evaluating cash flows, and financing acquisitions and mergers.

499. Independent Study (3) F, S

Prerequisites: Senior standing and approval by the department chairman. Open to qualified undergraduate students desiring to pursue directed independent inquiry. May be repeated for credit.

532. Corporate Financial Management (3) F, S

Prerequisite: Finance 330, and graduate standing. Financial policies and structure of corporations; acquisition and administration of funds; financial control.

533. Financial Administration (3) S

Prerequisite: Finance 532. Optimal financing and asset administration; advanced techniques of capital budgeting; application of analytical methods to the administration of the finance function of the business firm.

FOREIGN LANGUAGES EDUCATION

IN THE DIVISION OF HUMANITIES

(Offered by the Department of Foreign Languages and Literatures)

432. Teaching Foreign Languages in the Elementary School (2) F, S

Methods for teaching FLES: Foreign Languages in Elementary Schools. Critical review of materials, audio-lingual-visual aids, and current research. Conducted in English, with practice by students in the language they plan to teach.

442. Teaching Foreign Languages in the Secondary School (2-3) F

The theory and practice of language learning and language teaching with special emphasis on the audio-lingual method in combination with electro-mechanical aids. Conducted in English, with practice by students in the language they plan to teach. Required, before student teaching, of students presenting majors in Foreign Languages for the Standard Teaching Credential with a Specialization in Secondary Education. Students without teaching experience must register for three units of credit and must allow sufficient time in their schedules, at the same hour each day, so they can serve as teacher aides in secondary schools.

749. Student Teaching in Foreign Languages in the Secondary School

See page 156 under Secondary Education for description and prerequisites.

FRENCH

IN THE DIVISION OF HUMANITIES

(Offered by the Department of Foreign Languages and Literatures)

101. Fundamental French (5) F, S

Intensive practice in listening-comprehension, speaking, reading and writing to develop control of the sounds and the basic forms and structure of French. Audiolingual assignments are an integral part of the course and are to be prepared in the Language Laboratory.

102. Fundamental French (5) F, S

Prerequisite: French 101 (or equivalent). Intensive practice in listening-comprehension, speaking, reading and writing to develop control of the sounds and the basic forms and structure of French. Audio-lingual assignments are an integral part of the course and are to be prepared in the Language Laboratory.

203. Intermediate French (3) F

Prerequisite: French 102 (or equivalent). Intensive practice in speaking, understanding, reading, and writing based on cultural and literary materials. Linguistic analysis from sound to sentence. (3 hours lecture-discussion, 1 hour laboratory.)

204. Intermediate French (3) S

Prerequisite: French 203 (or equivalent). Intensive practice in speaking, understanding, reading and writing based on cultural and literary materials. Linguistic analysis from sound to sentence. (3 hours lecture-discussion, 1 hour laboratory.)

315. Introduction to French Literature (3) F, S

Reading and discussion to develop insights into French literature and culture while strengthening facility with the language. Open to lower division students with the consent of the instructor. Conducted in French.

317. Advanced Conversation and Composition (3) F, S

Designed to give the student special competence in the control of French as an instrument for free oral and written expression. Open to lower division students with the consent of the instructor. Conducted in French.

400. French for Advanced Students and Teachers (3) S

Intensive review of spoken French using recent developments in methodology and texts as subject materials.

431. French Literature to the Classic Age (3) F (Formerly 351)

Evolution of French literature and thought, through analysis of representative works, from the *chanson de geste* to the Baroque. Conducted in French.

441. French Literature Since the Age of Reason (3) S (Formerly 361)

The principal movements and authors of the 19th century (Romanticism, Realism, Naturalism, Symbolism), through analysis of representative works. Conducted in French.

451. French Classicism (3) F

Essence and evolution of *le classicisme*, studied principally in the works of the major 17th century authors (Corneille, Moliere, Racine, La Fontaine, La Rochefoucauld) and in the dominant genre (the theater). Conducted in French.

461. The Age of Enlightenment (3) S

Two complementary aspects of the 18th century: reason and feeling, the philosophes and the current of sensibility. Emphasis on major authors (Voltaire, Rousseau, Diderot, Marivaux, Laclos). Conducted in French.

466. Applied Linguistics in the Teaching of French (3) F

Introduction to general linguistics with emphasis on the relation of speech and writing, the theory and practice of pronunciation, and the phonemic and morphophonemic structure of the language under study. (Same as German, Spanish 466)

471. Senior Seminar: Contemporary French Literature (3) F

The major figures of the 20th century, including the generations of Proust, Apollinaire, Malraux, Sartre and Robbe-Grillet. Conducted in French.

499. Independent Study (1-3) F, S

Supervised projects in French language or literature to be taken with the consent of the Department Chairman as a means of meeting special curriculur problems. Selection of subject to be studied varies. May be repeated for credit.

557. Graduate Seminar: French Lyric Poetry (3) S

The evolution of the lyric from the Troubadours to the present, with emphasis on its changing form and function. Conducted in French.

GEOGRAPHY

IN THE DIVISION OF THE SOCIAL SCIENCES

111. General Physical Geography (3) F, S

A study of the basic elements of the physical environment (climate, land forms, water resources, vegetation, and soils) with particular emphasis on their world patterns and interrelationships.

121. Human Geography (3) F, S

Basic facts and concepts regarding the areal distribution and diversity of man, his settlements, his economies and his circulation patterns.

131. World Regional Geography (3) (Planned for 1966-67)

Man's distribution and activities within the framework of world geographic regions, with emphasis on the differing uses of various environments and the effects of geographic conditions on man. Not open to students who have had Geography 111 or Geography 121.

312. Geomorphology (3) F

Prerequisite: Geography 111. A study of the development of land forms and the processes which alter them, with emphasis on present landscapes in the United States and the interpretation of topographic maps.

323. Climatology (3) S

Prerequisite: Geography 111. A study of the basic climatological elements and processes, climatic types and the importance of climate in the natural and cultural landscape.

333. Economic Geography (3) F, S (Formerly 203)

Prerequisites: Geography 111, 121, or consent of instructor. A study of the production and distribution of the world's agricultural, mineral and industrial commodities, and analysis of the related economic, political and physical factors.

343. Maps and Map Interpretation (3) F (Formerly 262)

Sources, evaluation, uses, and planning of various types of maps and graphic aids for teaching and research, with emphasis on the principles of effective cartographic representation.

353. Cartography (3) S

Prerequisite: Geography 343 or consent of instructor. The compilation and construction of maps, charts, and graphs as geographic tools.

363. Geography of California (3) F, S (Formerly Geography 351)

Analysis of the geographic regions of California-their environmental diversity. settlement patterns, economic development, and current problems.

383. Conservation of Natural Resources (3) F, S

The principles of conservation and their application as they relate to soil, water, forests, minerals, and air, especially in the United States.

432. Geography of Anglo-America (3) F, S

Prerequisites: Geography 111, 121, or consent of instructor. A regional study of the United States and Canada emphasizing the interrelated physical and cultural features, that give geographic personality, both to the individual regions as well as the individual countries.

433. Geography of Europe (3) F, S

Prerequisites: Geography 111, 121, or consent of instructor. Description and analysis of physical environments and human occupance patterns in Europe west of the Soviet Union.

434. Geography of Latin America (3) 5

Prerequisites: Geography 111, 121, or consent of instructor. A regional study of Middle and South American nations emphasizing interrelated physical and cultural characteristics, with attention given to special hemispheric relationships involving these countries and the United States and Canada.

435. Geography of Asia (3) F

Prerequisites: Geography 111, 121, or consent of instructor. A regional study of Asiatic nations, exclusive of the Soviet Union and Southwest Asia, showing the interrelationships of physical and cultural characteristics with special emphasis on the growing significance, in economic, social, and political terms, of such countries as China, India and Japan.

436. Geography of Africa (3) F

Prerequisites: Geography 111, 121, or consent of instructor. A regional survey of the countries and colonies of Africa with special attention given to the rapid development of social, economic, and political conditions and problems of subsaharan Africa.

438. Geography of the Soviet Union (3) S

Prerequisites: Geography 111, 121, or consent of instructor. Character of and bases for the regional diversity of man and land in the Soviet Union.

439. Geography of the Middle East (3) S

Prerequisites: Geography 111, 121, or consent of instructor. The physical foundations and cultural landscapes of civilization in the Middle East, with emphasis on contemporary political, socio-economic, and cultural changes.

445. Australia and the Pacific Islands (3) F, S

Prerequisites: Geography 111 or 121. The physical, cultural, and regional geography of Australia, New Zealand, Melanesia, Micronesia, and Polynesia.

471. Urban Geography (3) F

Prerequisites: Geography 111, 121, or consent of instructor. The city as a geographic unit; urban settlements as regional centers; city-region relationships; the structure of villages, towns and cities, and their historical development; case studies.

481. Political Geography (3) 5

Prerequisites: Geography 111, 121, or consent of instructor. The world political pattern with specific reference to politically organized areas as objects of geographic study.

490. Geographic Literature and Research (3) F

Prerequisites: Senior standing, consent of the instructor, and 18 hours of geography courses. Introduction to geographic literature and research methodologies, with a discussion of major geographic research themes, leading scholars, problems of methodology. The student will be expected to prepare several papers of varying length as based on library research, and at least one field trip accompanied by the instructor.

499. Independent Study (1-3) F, S

Open to advanced students in Geography by permission of the chairman of the department. May be repeated once for credit.

513. Seminar in Regional Geography (3) F

Prerequisite: Graduate standing or consent of instructor. A seminar on selected regions of the world. May be repeated once for credit.

523. Seminar in Systematic Cultural Geography (3) S

Prerequisite: Graduate standing or consent of instructor. A seminar on selected topics pertaining to the political, economic and social relationships in the geography of man. May be repeated once for credit.

GEOLOGY

IN THE DIVISION OF SCIENCE, MATHEMATICS, AND ENGINEERING

100A. Physical Geology (4) F

The origin, composition and distribution of earth materials will be studied. Special emphasis will be given to the modification of earth materials through mechanical and chemical processes.

100B. Historical Geology (4) S

Prerequisite: Geology 100A. Studies of evolutionary history of the earth including the theories of the earth's origin. Paleontological evidences for earth's evolution will be examined.

GERMAN

IN THE DIVISION OF HUMANITIES

(Offered by the Department of Foreign Languages and Literatures)

101. Fundamental German (5) F, S

Intensive practice in listening-comprehension, speaking, reading and writing to develop control of the sounds and the basic forms and structures of German-Audio-lingual assignments are an integral part of the course and are to be prepared in the Language Laboratory.

102. Fundamental German (5) F, S

Prerequisite: German 101 (or equivalent). Intensive practice in listening-comprehension, speaking, reading and writing to develop control of the sounds and the basic forms and structure of German. Audio-lingual assignments are an integral part of the course and are to be prepared in the Language Laboratory.

203. Intermediate German (3) F

Intensive practice in speaking, understanding, reading, and writing based on cultural and literary materials. Linguistic analysis from sound to sentence. (3 hours lecture-discussion, 1 hour laboratory)

204. Intermediate German (3) S

Prerequisite: German 203 (or equivalent). Intensive practice in speaking, understanding, reading and writing based on cultural and literary materials. Linguistic analysis from sound to sentence. (3 hours lecture-discussion, 1 hour laboratory)

315. Introduction to German Literature (3) F

Reading and discussion to develop insights into German literature and culture while strengthening facility with the language. Open to lower division students with the consent of the instructor. Conducted in German.

317. Advanced Conversation and Composition (3) S

Designed to give the student special competence in the control of German as an instrument for free oral and written expression. Open to lower division students with the consent of the instructor. Conducted in German.

400. German for Advanced Students and Teachers (3) F, S

Intensive review of spoken German using recent developments in methodology and texts as subject materials.

431. The Works of Lessing and Schiller (3) F (Formerly 351)

The major works of Lessing and Schiller illustrating their thought and art. Conducted in German.

441. The Works of Goethe (3) \$ (Formerly 361)

Selected works of Goethe illustrating his thought and art. Conducted in German.

451. German Literature to Goethe (3) F

Important works from the Nibelungenlied to Faust in the setting of their intellectual and historical climate. Conducted in German.

461. German Literature Since Goethe (3) S

Important works illustrating the development from Romanticism to Expressionism in the setting of their intellectual and historical climate. Conducted in German.

466. Applied Linguistics in the Teaching of German (3) F

Introduction to general linguistics with emphasis on the relation of speech and writing, the theory and practice of pronunciation, and the phonemic and morphophonemic structure of the language under study. (Same as French, Spanish 466)

475. Senior Seminar: The German Drama (3) S

The leading dramatists from Gryphius to Frisch, including works by Kleist, Grillparzer, Hebbel, Hauptmann, Brecht, with emphasis on various approaches to this genre. Conducted in German.

499. Independent Study (1-3) F, S

Supervised projects in German language or literature to be taken with the consent of the Department Chairman as a means of meeting special curricular problems. Selection of subject to be studied varies. May be repeated for credit.

571. Graduate Seminar: The German Novelle (3) F

The German Novelle from Goethe to the present, including works by Kleist, Mann, Kafka, Dürrenmatt, Grass, with emphasis on the uniqueness of this genre. Conducted in German.

HEALTH EDUCATION

IN THE DIVISION OF EDUCATION

(Offered by the Department of Health Education, Physical Education, and Recreation)

HE 101. Personal and Community Health (2) F, S

Meaning and significance of physical, mental and social health as related to the individual and to society; alcohol and narcotics education; fire prevention; public safety and accident prevention.

HE 102. Prevention and First Aid (2) S

Study of the hazards in man's environment and the common accidents related thereto. Emphasis is placed upon both the care and prevention of accidents. Students will be certified in Standard and Advanced American Red Cross First Aid procedures.

HISTORY

IN THE DIVISION OF THE SOCIAL SCIENCES

110A. World Civilizations to the 17th Century (3) F

The story of man from the beginning of civilizations and historical records until the middle of the 17th century.

110B. World Civilizations from 1648 (3) S

The story of man from the end of the religious wars to the present. Deals with the rise of science, the Enlightenment, the Industrial Revolution, and the rise of the ideologies of the Twentieth Century.

170A. United States to 1877 (3) F

A survey of the political, social, economic, and cultural development of the United States from the discovery to 1877. Attention is given to the old world background, the rise of the new nation, sectional problems, and the Civil War and Reconstruction.

170B. United States Since 1877 (3) S

Survey of United States History since the period of Reconstruction, covering political, economic, social, and biographical subjects.

300. Africa and the Middle East Since 1945 (3) F

A survey of the Middle East and Africa since 1945, concentrating on the development of their present civilizations, political and economic problems, and their place in world affairs.

301. Far East and Latin America Since 1945 (3) S

A survey of present governments and civilizations in the Far East and Latin America, summarizing the background of present developments and problems in these areas.

340A. History of England and Great Britain (3) F

A study of the political, economic, and social history of England and her affiliated nations and territories from the earliest times to the later Stuarts. Particular stress is placed upon the growth of the parliamentary system of government and upon English overseas activities.

340B. History of England and Great Britain (3) 5

A study of the political, economic, and social history of Great Britain from the later Stuarts to the present. Particular stress is placed upon the modification of the parliamentary system and the growth of economic and social democracy within Britain and upon the development of responsible political systems in the dependent territories.

350A. Colonial Latin America (3) F

A survey of the pre-Columbian cultures; the conquests by Spain and Portugal and the European background of these countries; the development of the socio-economic, cultural, and governmental institutions in colonial life; the background of revolutions and the wars for independence.

350B. Republican Latin America (3) S

A survey of the Latin American republics from 1826 to 1945 emphasizing the struggle for responsible government, socio-economic, and cultural changes, and the role of United States foreign policy.

381. Westward Movement in the United States (3) S

Prerequisite: History 170A-B or equivalent. A survey of the expansion of the United States population and sovereignty from the Piedmont to the Pacific, 1750 to 1900, and a history of regional development during the frontier period.

383. History of California (3) F

A survey of the political, economic, and social history of California from the aboriginal inhabitants to the present, tracing the development of contemporary institutions and the historical background of current issues.

399. Historiography (3) F, S

Introduction to nature and discipline of history. A study of methods of historical research and writing, of bibliography, and of major problems of historical interpretation. Required of history majors.

401. European Intellectual History from 1648 to the Present (3) F

Prerequisite: Consent of instructor. The history of the competing ideas in European history from 1648 to the present which have entered into the formation of Modern European institutions.

412A. Ancient Near East—Mesopotamia (3) F

Prerequisite: History 110A. A study of the political, socio-economic, religious, and literary history of Mesopotamian culture from the rise of the Sumerian city-states to the Alexander the Great, a period of over three millenia. This will include discussion of the Sumerians, Assyrians, Babylonians, Hurrians, and Persians.

412B. Ancient Near East—Syro-Palestine & Egypt (3) 5

Prerequisite: History 110A. A study of Ancient Egypt from early dynastic times in the third millenium B.C. to the conquest of Alexander the Great. The history of the Syro-Palestinian region will be studied in light of its migrations and international culture. A careful study of the Hebrews and their contributions to modern civilization will be included.

415A. Classical Greece (3) F

Prerequisite: History 110A or consent of instructor. A study of the civilization of ancient Greece. This course traces the rise and flourishing of the classical city-states until the emergence of Macedon; considerable attention is devoted to the literary and philosophic contributions to our modern civilization.

415B. Hellenistic Civilization (3) S

Prerequisite: History 110A or consent of instructor. A study of the Hellenistic synthesis and the new patterns in government, the arts and sciences, philosophy and literature that appeared between the Macedonian conquest and the intervention of Rome.

417. Ancient Rome (3) S (Planned for 1966-67)

Prerequisite: History 110A. A study of the civilization of ancient Rome. Political institutions are emphasized from the earliest times to Christianization of the Empire in 325 A.D.; attention is also given to the rise of Christianity.

423A. Early Middle Ages, 325-1095 (3) F

Prerequisite: History 110A. History of Europe from Constantine to the eve of the Crusades. The course covers the transformation of European society and culture through the Barbarian invasions, the Byzantine and Islamic cultures, and the establishment of the feudal order in Western Europe.

423B. Later Middle Ages, 1095-1400 (3) S

Prerequisite: History 110A. History of Europe from the Crusades to Dante, emphasizing the political, economic, literary, and artistic changes of the period.

425A. The Renaissance (3) F

Prerequisite: Consent of instructor. The history of Europe from 1400 to 1525 with emphasis upon the beginnings of capitalism, the beginnings of the modern state, humanism, the prereformation and the Church on the eve of the Reformation.

425B. The Reformation (3) S

Prerequisite: Consent of instructor. The history of Europe from 1525 to 1648; deals with the Protestant and Catholic Reformations; the religious wars; the price rise; royal absolutism; the rise of science.

426. Rise of Modern Europe, 1648-1763 (3) F

Prerequisite: History 110B. European diplomatic history and the balance of power from 1648 to 1763. Attention is given to the social and philosophical developments of the period.

427. Europe in the Era of the French Revolution and Napoleon (3) S

Prerequisite: History 110A-B. Europe from the close of the Seven Years' War to the Congress of Vienna. Emphasis is placed on the politics, society, and culture of the Old Regime, the influence of the Enlightenment, the impact of the French Revolution on Europe, and the establishment of French hegemony by Napoleon.

428. 19th Century Europe (3) F

Prerequisite: History 110B. History of Europe from 1815 to 1914. This course covers the Industrial Revolution, the rise of middle-class democracy and economic liberalism, and the forces of imperialism which led to World War I.

429. Europe Since 1914 (3) F

Prerequisite: History 110B. Survey of events from the beginning of World War I to the present. Special emphasis given to the economic, political, social, diplomatic, and intelletual trends of 20th century Europe.

432. Germany Since 1648 (3) S

Prerequisite: History 110A-B. The evolution of Germany from the Peace of Westphalia to the present. Emphasis is placed on political, social, economic, diplomatic and cultural trends in the 19th and 20th centuries.

434A. Russia to 1890 (3) F

Prerequisite: History 110B. An analysis of the historical developments from the establishment of the Russian state at Kiev through the great reforms and reaction of the 19th century. Emphasis is placed upon the shaping of contemporary Russia.

434B. The Russian Revolutions and the Soviet Regime (3) S

An evaluation of the 1905 and 1917 revolutions and the subsequent consolidation of power under the Communist regime. Chief emphasis is placed upon the continuity and change in Russian social, political, cultural institutions and foreign policy effected by the impact of Marxist-Leninist-Stalinist ideology.

456. History of Africa to 1945 (3) F

A history of Africa from the earliest times to World War II.

461. Far East Since 1850 (3) S

Prerequisite: History 110A. An historical analysis of the Western impact on Eastern Asia in the 19th and 20th centuries with special emphasis on politics and diplomacy, the breakdown of the traditional societies, and the rise of communism in the 20th century.

466A. Middle East to the Crusades (3) F

The study of the events transpiring in the Middle East from the Roman world to the period of the Crusades. This will include the impact of the Islamic civilization upon the Middle East society.

466B. Middle East Since the Crusades (3) S

The development of the countries of the Middle East following the Crusades to the present. This will include the Ottoman Empire, European colonialism in the Middle East, and the modern Middle East.

471. American Colonial Civilization (3) F

The settlement of North America and the growth of Anglo-American civilization to 1763, stressing the development of political and economic institutions and a distinctive American culture.

472. United States from Colony to Nation (3) 5

Establishment of an independent government, and growth of a national economy and culture from 1763 to 1815.

473. Sectionalism and Civil War (3) F

Slavery, sectionalism, and Civil War, and the impact of these forces upon national life and thought from 1815 to 1865.

474. The Growth of Modern United States (3) F

Prerequisite: History 170B or consent of instructor. A study of Reconstruction, the growth of the national economy, political reform movements, the rise to a world power, and cultural developments from the Civil War to 1900.

475. United States from 1900 to 1932 (3) S

Prerequisite: History 170B or equivalent. A study of the political, economic, social, diplomatic, and intellectual trends and problems from 1900 to the election of 1932. Course will stress the reconsideration of traditional national policies toward the government, economy, and role of the United States in world affairs.

476. United States Since 1933 (3) S

Prerequisite: History 170B or equivalent. A study of United States history from the New Deal to the present. Includes political, social, economic, diplomatic, and intellectual developments and issues. Stresses the emergence of the national government as a factor in American life and the expansion of U.S. activity in foreign affairs.

485A. United States Foreign Relations to 1900 (3) F

A comprehensive survey of the foreign relations of the United States from the beginning of the nation until 1900. Particular attention is given to bases of policy, critical evaluation of major policies and relationships between domestic affairs and foreign policy.

485B. United States Foreign Relations from 1900 (3) S

Relations from 1900 to the present. An analysis of the rise of the United States as a world power in the twentieth century with special emphasis on the search for world order and the diplomacy of the atomic age.

486A. Social and Intellectual History of the United States (3) F

A study of the social and intellectual development of the United States from the Puritans to the Civil War.

486B. Social and Intellectual History of the United States (3) S

A study of the social and intellectual development of the United States from the Civil War to the present.

499. Independent Study (1-3) F, S

Open to advanced students in history with the consent of the department chairman. May be repeated for credit.

501. Seminar in the Content and Method of History (3) F

Prerequisite: Consent of the instructor.

505. Seminar in Analysis of Recent Interpretations in History (3) S

Prerequisite: Consent of the instructor.

520. Seminar in European History (3) S

Prerequisite: Consent of the instructor.

570. Seminar in American History (3) F

Prerequisite: Consent of the instructor.

585. Seminar in the History of United States Foreign Relations (3) F

Prerequisite: Consent of the instructor.

History, Journalism Education, Management

590. History and Historians (3) F (Formerly 490)

Prerequisite: Consent of instructor. A study of the writings, personalities, and philosophies of representative historians from Herodotus to the present.

591. Thesis (3-6) S

Prerequisite: Consent of instructor.

JOURNALISM EDUCATION

IN THE DIVISION OF HUMANITIES

(Offered by the Department of Communications)

442. Teaching Journalism in the Secondary School (2-3) S

Theory and technique of advising school newspaper and yearbook staffs. Relation of classroom instruction to staff assignments.

749. Student Teaching in Journalism in the Secondary School (6) F, S

See page 156 under Secondary Education for description and prerequisites.

MANAGEMENT

IN THE SCHOOL OF BUSINESS ADMINISTRATION AND ECONOMICS

Principles of Management (3) F, S

Prerequisite: Economics 200 or 200 A,B. The fundamentals of management universal to all organizations; covers such studies as planning, organizing, activating, and controlling.

342. Production Management (3) F, S

Prerequisite: Management 341. The study of modern manufacturing and its methods of operation. Major emphasis is placed upon the efficient use of management, labor, and productive equipment.

343. Personnel Management and Human Relations (3) F

Prerequisite: Management 341, or consent of the instructor. An inquiry into the problems of personnel relating to the firm, community, and economy; the importance of good human relations; and management's responsibilities in the efficient direction of personnel.

346. Business Law (3) F, S

The philosophy, institutions and role of the law as it applies to business operations. A course designed to provide the student with an understanding of the scope and extent of basic subjects in the area of business law as well as a knowledge of the operation, function, and structure of courts and administrative agencies. Analysis of the areas of contracts, agency, sales, and personal property with emphasis upon the principles involved and the conditions requiring professional legal advice.

347. Business Law (3) S

Prerequisite: Management 346. The philosophy, institutions and role of the law as it applies to business operations. Analysis of the areas of bailments, sales, negotiable instruments, patents, employment relations, and business organizations. Law in its relationship to business with special emphasis on current problems.

441. Labor-Management Relations (3) F

Prerequisite: Management 341 or consent of the instructor. The course provides an understanding of the impact of labor-management relations upon labor, management, and the public. Proper grievance procedure, collective bargaining, and the settlement of disputes are among the subjects that are examined.

442. Labor Law (3) S

Prerequisites: Management 341, and consent of the instructor. The history of labor law, the investigation of federal and state legislation, and its effects upon American society.

444. Management of Systems (3) S

Prerequisites: Management 342. The theory and management of systems and procedures applied to the control and coordination of the whole complex of operations in modern institutions. The course explores introductory work such as charting, design of systems and procedures, motion-time study, and general systems theory.

445. Production Control Analysis (3) F

Prerequisite: Management 342. Introductory calculus, statistics, and a course in economic principles or consent of the instructor. The quantitative analysis of production and quality control related to such areas as mathematical programming, statistical analysis, and economic analysis.

446. Managerial Economics (3) F, S

Prerequisite: Quantitative Methods 361, Management 341, and consent of the instructor. The application of economic analysis to the solution of business problems; the character of the firm's demand, costs, prices, and profits; short and long-run planning for a business enterprise; and the relationship between the firm and the economy.

447. Management Decision Simulation (3) F

Prerequisite: The Business Administration core or consent of the instructor. A simulation of an oligopolistic industry to provide the student with an opportunity to use analytical tools to make managerial decisions in the functional areas of management.

449. Business Policies (3) F, S

Prerequisites: Accounting 101A,B, or 200, Finance 330, Management 341, and Marketing 351, and senior standing. The seminar is limited to seniors and graduate students. An integrative course examining various problems in the several fields of management. Through analysis of cases and problems the student is encouraged to recognize the usefulness of other disciplines than business, as well as the role of individual and team action in the decision-making process.

499. Independent Study (3) F, S

Prerequisites: Management concentration, senior standing, and approval by the department chairman. Open to qualified undergraduate students desiring to pursue directed independent inquiry. May be repeated for credit.

543. Seminar in Personnel Administration (3) F

Prerequisites: Graduate standing and the consent of the instructor. The seminar provides the graduate student with an opportunity to study cases, problems, and significant literature in the field in order to develop a comprehensive understanding of personnel administration and human relations.

544. Organizational Behavior, Theory, and Administration (3) S

Prerequisites: Graduate standing, Management 341, and consent of the instructor. The analysis of human behavior in organization, studies in organizational theories, and administrative action.

MARKETING

IN THE SCHOOL OF BUSINESS ADMINISTRATION AND ECONOMICS (Offered by the Department of Marketing and Quantitative Methods)

307. Distribution Costs (3) S

Prerequisites: Accounting 101B, or 200, and Marketing 351. The development of quantitative measures for marketing activity; costs of distributing through different channels of distribution, advertising versus personal selling, and movement activities; development of sales budgets, standard costs, and the analysis of actual performance in the light of budgets and standards. (Same as Accounting 307)

351. Principles of Marketing (3) F, S

Prerequisite: Economics 200. Marketing organization and methods for the individual business with serious consideration of the social and economic aspects of the distribution task. Topics include the consumer, his place and his problems in the marketing area; marketing functions, institutions, and policies; legal and political environment for marketing activity; and an evaluation of the present marketing system.

352. Principles of Retailing (3) F

Prerequisite: Marketing 351. Retail problems of location; organization; buying; selling media and methods; pricing; and merchandising. Emphasis will be placed upon operating procedures and control, planning, budgeting, and costs.

353. Marketing Administration (3) F, S

Prerequisite: Marketing 351. Survey of the major problems facing the marketing executive, including product planning, pricing, market and analysis, sales potentials, marketing organization, and administration of the sales force.

354. Principles of Advertising (3) S

Prerequisite: Marketing 351. The management of the advertising function, including the role of advertising in marketing strategy, budgetary considerations, allocation among media, measurement of effectiveness, administration and control, and its economic and social implications. Case method of instruction is emphasized.

355. Credit and Credit Administration (3) F

Prerequisite: Marketing 351. The general nature and functions of credit, credit instruments; the operation of the credit department; sources of credit information; acceptance of credit risk; establishment of credit limits; and the problem of collections.

356. Creative Motivation in Marketing (3) 5

Prerequisite: Marketing 351. Personal salesmanship and the application of the findings of the behavioral sciences to selling and group dynamics as they relate to the creative and promotional aspects of the business.

357. Industrial Purchasing (3) S

Prerequisite: Marketing 351. The principles and practices of purchasing for industrial organizations. Major buying policies, sources of materials, quantity and quality considerations, and the relation to production cost.

358. Physical Distribution (3) F

Prerequisite: Marketing 351. Consideration of the logistics problems of physically distributing products and the principles and practices of solving them. An evaluation of the transportation and storage of products based on considerations of cost, time, and service.

421. International Trade (3) F

Prerequisite: Economics 200. An examination of the theory of international trade and the means and significance of balance of payments adjustments, with an analysis of past and present developments in international commercial and monetary policy. (Same as Economics 421)

452. Marketing Research (3) S

Prerequisites: Marketing 351, and Quant. Meth. 361. The application of scientific methodology as an aid in solving problems of product planning, pricing, promotion, and distribution. Practical application is emphasized through class projects and case problems.

459. Marketing Problems (3) F, S

Prerequisite: Marketing 351. It is recommended that the student have completed at least two advanced marketing courses or have equivalent business experience. Case studies of problems facing the marketing executive; identification and analysis of the problems; selection and evaluation of alternative solutions; and implementation of recommended solutions.

499. Independent Study (3) F, S

Prerequisites: Marketing concentration, senior standing, and approval by the department chairman. Open to qualified undergraduate students desiring to pursue directed independent inquiry. May be repeated for credit.

552. Seminar in Product Planning and Price Policy (3) F

Prerequisite: Marketing 351. The product planning problem and its implications for the marketing area and other areas of the business. An examination of pricing problems and objectives and policies for solution and implementation.

553. Marketing to the Government (3) S

Prerequisite: Marketing 351. The marketing of defense and non-defense products to the government. The nature and administration of contractural agreements with government agencies.

MATHEMATICS *

IN THE DIVISION OF SCIENCE, MATHEMATICS, AND ENGINEERING

120. Finite Mathematics (3) F, S

Prerequisites: Three years of high school mathematics or its equivalent. This is a course comprising introductions to the following topics: logic, set theory, matrices, and probability. It is particularly suited to students of economics, the biological and social sciences.

150A,B. Analytic Geometry and Calculus (4,4) F, S

Prerequisites: 4 years of high school mathematics inclusive of trigonometry and a passing score in the placement test. An introduction to analysis including analytic geometry, functions, continuity, differentiation, the definite integral, integration, applications.

^{*} Prerequisites may be waived in any mathematics course by the consent of the instructor.

250A,B. Intermediate Calculus (3,3) F, S

Prerequisites: Math 150A-B or equivalent. A continuation of Math. 150. Topics include Taylor's theorum, infinite series, functions of several variables, partial differentiation, multiple integrals, linear differential equations.

291. Linear Algebra (3) F, S

Prerequisite: Math. 150B. The study of matrices, determinants, vector spaces, linear transformations.

302. Modern Algebra (3) 5

Prerequisite: Math 291. The integers, rational numbers, real and complex numbers, polynominal domains, introduction to groups, rings, integral domains and fields.

304. Mathematical Logic (3) F, S

Prerequisite: Math 250A. An introductory course in the elements of mathematical logic.

305. Elements of Set Theory (3) F

Prerequisite: Math 250B. Operations on sets; functions; cardinals and ordinals; ordering, well ordering; axiom of choice; transfinite numbers.

310. Ordinary Differential Equations (3) F, S

Prerequisite: Math 250B and Math 291. An introduction to existence theorems and the theory of differential equations.

314. Elementary Topology (3) S

Prerequisite: Math 250B. An introductory course in point set and algebraic topology.

320. Projective Geometry (3) F, S

Prerequisite: Math 291. Homogeneous coordinates, projective group, cross-ratio, duality, point and line conics.

330. Number Theory (3) 5

Prerequisite: Math 250B. Divisibility, congruences, prime number theory, Diophantine problems.

335A,B. Probability and Mathematical Statistics (3,3) F, S

Prerequisite: Math 250B. An introductory course in probability theory and its applications, based on use of the calculus.

350A,B. Advanced Calculus (3,3) F, S

Prerequisite: Math 250B, Math 291. Designed to introduce the student to rigorous proofs in analysis. Topics include the real number system, continuity, differentiation and integration of functions of several variables, infinite integrals and series.

407A,B. Abstract Algebra (3,3) F, S

Prerequisite: Math 291. Sets, mappings, groups, rings, modules, fields, homomorphisms, advanced topics in vector spaces and theory of linear transformations, matrices, algebras, ideals, field theory, Galois theory.

412A,B. Complex Analysis (3,3) F, S

Prerequisite: Math 350A. An introduction to the study of functions of a complex variable.

425. Differential Geometry (3) S

Prerequisite: Math 350A, Introduction to the differential geometry of curves and surfaces.

430. Partial Differential Equations (3) F, S

Prerequisite: Math 350B. Cauchy-Kowalewsky and other existence theorems, theory of first order equations, classification of equations of higher order, detailed study of elliptic, hyperbolic and parabolic equations, applications of functional analysis to partial differential equations.

450A,B. Real Analysis (3,3) F, S

Prerequisite: Math 350A. An introductory course in modern functional analysis. Measure theory, differentiations and theories of integration. Hilbert and Banach spaces, linear transformations and spectral theories.

MATHEMATICS EDUCATION

IN THE DIVISION OF SCIENCE, MATHEMATICS, AND ENGINEERING (Offered by the Department of Science and Mathematics Education)

100A,B. Fundamental Concepts of Mathematics—Arithmetic (3,3) F, S (Formerly Math. 100AB)

Prerequisites: One year of algebra and one year of geometry. The structure of the real number system and its subsystems. Numeration systems. Elementary number theory. Equations and inequalities. Elementary set theory and logic.

300. Fundamental Concepts of Mathematics—Algebra (3) F (Formerly Math. 300)

Prerequisite: Math 150B. Selected topics in modern algebra. Designed especially for teachers and prospective teachers of secondary mathematics.

301. Fundamental Concepts of Mathematics—Geometry (3) 5 (Formerly Math. 301)

Prerequisite: Math 150B. Selected topics in elementary geometry. The study of various axiom systems for Euclidean geometry; non-Euclidean geometry; projective, metric, and affine geometry. Designed especially for teachers and prospective teachers of secondary mathematics.

432. Teaching Mathematics in the Elementary School (2) F, S

Prerequisite: Math. Educ. 100B. Objectives, content, materials, pupil experiences, methods of instruction, and evaluation in arithmetic. The nature and scope of arithmetic in the elementary school.

442. Teaching Mathematics in the Secondary School (2,3) 5

Objectives, methods, and materials for teaching mathematics in secondary schools. Required, before student teaching, of students presenting majors in mathematics for the General Secondary Credential. Students without teaching experience must register for three units credit, and must allow sufficient time in their schedules, at the same hour each day, so that they can serve as teacher aides in high schools. See Secondary Education listing for professional prerequisites. The requirements for the major must include Math. Educ. 300 and 301.

749. Student Teaching in Mathematics in the Secondary School (6) F, S

See page 156 under Secondary Education for description and prerequisites.

750. Seminar in Mathematics Education (2) F, S

Prerequisites: Graduate standing and consent of the instructor. Study of selected problems in elementary or secondary education. May be repeated for credit. (Hours by arrangement.)

MUSIC

IN THE DIVISION OF FINE AND APPLIED ARTS

100. Introduction to Music (3) F, S

A basic approach to listening to music with understanding and pleasure through a general survey of musical literature representative of various styles and performance media. Music will be related to other arts through lectures, recordings, and concerts. Closed to music majors.

101. Music Theory for Non-Music Majors (3) F, S

Basic theory and practical applications to further understanding of basic music principles and to improve music performance and listening skills. Includes sight-singing and relationship to keyboard and simple melodic instruments. Not open to music majors.

111A,B. Music Theory (3,3) F, S

Three hours lecture, one hour laboratory. A year course covering diatonic harmony and musicianship. Includes scales and intervals, triads and their inversions, harmonizations, non-harmonic tones, modulation and dominant seventh chords. Practical applications, to include sight-singing, dictation and keyboard harmonizations.

151A,B. Survey of Musical Literature (2,2) F, S

Open to music majors and minors and qualified students by consent of instructor. Two hours lecture, one hour listening. An introductory course for majors in the study of the history and literature of music in Western civilization. Students must be able to read music as a part of the analysis of form, design and style.

161a, 361a. Symphony Orchestra (1) F, S (1,1,1,1) (1,1,1,1)

Open by audition to college students and qualified adults in the community. Performance of standard representative symphonic works.

161b, 361b. College Choir (1) F, S (1,1,1,1) (1,1,1,1)

Open to all college students. Study and performance of standard representative choral literature works.

161c, 361c. Symphonic Band (1) F, S (1,1,1,1) (1,1,1,1)

Open by audition to college students and qualified adults in the community. Performance of standard representative symphonic band literature.

161d, 361d. Opera Workshop (1) F, S (1,1,1,1) (1,1,1,1) (Planned for 1966-67)

Study of roles and representative excerpts from standard and contemporary operas and the basic musical, dramatic and language techniques of the musical theatre. Performance of operatic excerpts and complete operas.

162b, 362b. Wind Ensemble (1) F, S (1,1,1,1) (1,1,1,1)

Open to qualified wind students by audition or consent of the instructor. Performs representative wind ensemble literature.

162c, 362c. Vocal Ensemble (1) F, S (1,1,1,1) (1,1,1,1)

Study and performance of choral literature of the Renaissance and Baroque periods. Open only to students by audition. Public performance required.

163, 363. Chamber Music Ensembles (1) F, S (1,1,1,1) (1,1,1,1)

Open to all qualified wind, string, or keyboard students. Various ensembles will be formed to study, read, and to perform representative chamber literature of all periods.

170, 370. Class Instruction, Principal Instrument or Voice (1) F, S (1,1,1,1) (1,1,1,1)

Class instruction in the principal instrument or voice for intermediate and advanced students. Open only to students whose placement-proficiency examination reveals deficiencies in the major performing field. (See 371-8)

171-178, 371-378, 571-577. Studio (Private Instruction) Principal Instrument or Voice (1) F, S (1,1,1,1) (1,1,1,1) (1,1)

Individual on-campus lessons with approved instructors. One unit per semester required of all music majors in the principal performing field. 500-level courses provide advanced training in the technique and repertoire at the graduate level in the student's principal performance medium. Required of graduate students whose terminal project is the graduate recital. Special fee.

171, 371, 571. Voice, Intermediate and Advanced

172a, 372a, 572a. Violin, Intermediate and Advanced

172b, 372b, 572b. Viola, Intermediate and Advanced

172c, 372c, 572c. Cello, Intermediate and Advanced

172d, 372d, 572d. String Bass, Intermediate and Advanced

173a, 373a, 573a. Oboe, Intermediate and Advanced

173b, 373b, 573b. Flute, Intermediate and Advanced

173c, 373c, 573c. Clarinet, Intermediate and Advanced

173d, 373d, 573d. Bassoon, Intermediate and Advanced

174a, 374a, 574a. Trumpet, Intermediate and Advanced

174b, 374b, 574b. Trombone and Baritone, Intermediate and Advanced

174c, 374c, 574c. French Horn, Intermediate and Advanced

174d, 374d, 574d. Tuba, Intermediate and Advanced

175, 375, 575. Percussion, Intermediate and Advanced

176a, 376a, 576a. Piano, Intermediate and Advanced

176b, 376b, 576b. Organ, Intermediate and Advanced

377, 577. Composition, Advanced

378. Conducting, Advanced

* 181, 381. Orchestral Instruments (1,1,1,1 or 2,2,2,2) (1,1,1,1 or 2,2,2,2)
Required of all music degree candidates and for music teaching credentials.

^{*} Instrumental majors are required to take a minimum of 8 units of orchestral instruments, Mu 181-381.

181a, 381a. String Instruments (1-2) F

Specialization on violin, with related work on standard instruments of the string family.

181b, 381b. Woodwind Instruments (1-2) F

Specialization on clarinet, with related work on standard instruments of the woodwind family.

181c, 381c. Brass Instruments (1-2) S

Specialization on trumpet, with related work on standard instruments of the brass family.

181d, 381d. Percussion Instruments (1-2) S

Specialization on snare drum, with related work on standard instruments of the percussion family.

182A,B 382A,B. Piano Class for Music Majors (1) F, S

Prerequisite: declaration of the music major and consent of instructor. Designed to meet music major piano requirements for degree and teaching credentials. Fundamentals of keyboard technique for students whose major performance field is not piano. Not required for piano majors.

183A,B, 383A,B. Voice Class for Music Majors (1) F, S

Prerequisite: declaration of the music major and consent of instructor. Designed to meet voice requirement for instrumental and piano majors and to prepare candidates for proficiency requirement for teaching credential. Not required for voice majors.

211A,B. Music Theory (3,3) F, S

Prerequisite: Mu 111B, or equivalent. Three hours lecture, one hour laboratory. A year course covering secondary dominants, diminished seventh, ninth, eleventh and thirteenth chords, sequence and chromatic chords. Practical applications to include sight-singing, melodic and harmonic dictation, and keyboard harmonizations.

220. Structures of Music (2) S

A non-technical study of the aesthetics of musical form and their relation to similar aspects in the other arts.

310. Theory Review (3) F

Review of materials covered in Mu 111A,B and Mu 211A,B. For regular or transfer students whose junior placement-proficiency examination indicates need for further study prior to taking upper division theory. Includes sequence, secondary dominants, modulations and chromatic harmony and sight-singing and dictation based upon the materials of Mu 211A,B.

312A,B. Counterpoint (2,2) F, S

Prerequisites: Music 111A,B and 211A,B. Basic 18th Century counterpoint in two, three and four parts, double counterpoint, canon, and fugue forms.

321A,B. Form and Analysis (2,2) F, S

Prerequisite: Consent of instructor. Analysis of structural elements of music such as motive, phrase, and period; binary, ternary, rondo, sonato-allegro and larger musical forms in representative musical works.

322A,B. Composition (2,2) F, S

A. Prerequisites: elementary counterpoint, Music 211B or consent of instructor. Ear training, analysis of smaller forms, simple composition of two-three part song form styles, B. Analysis and writing of more complex musical forms.

323A. Orchestration (2) S

Prerequisite: Music 211B and consent of instructor. Writing and analysis of orchestral music.

333. Music and Child Development (3) F, S

Prerequisite: Mu 101 or equivalent or successful completion of proficiency test. Study of the relationship of music to child growth and development, with emphasis on the child from five to twelve.

350. Music in Our Society (3) F, S

Prerequisite: Mu 100 or consent of instructor. Three hours lecture and discussion, one hour listening. Designed to increase interest and an understanding of music in its relation to our general culture. Emphasis on structure, analysis and aesthetic principles through the study of masterpieces of musical literature of various historical periods.

351A,B. History and Literature of Music (3,3) F, S

Prerequisite: Music 351A, History and Literature of Music. A. A study of the history and literature of music from early Greek beginnings through the Renaissance. B. A study of the history and literature of music covering the Baroque, Classic, Romantic period and the 20th Century. (Required of all music majors.)

384A,B. Piano Class for Teachers (1,1) F, S

Prerequisite: Music 101 or consent of instructor. Elementary and intermediate instruction in basic piano techniques, with special emphasis on application to appropriate song materials and simple accompaniments used in the elementary school. Required of candidates for general elementary credential who specialize in music and those preparing to teach in kindergarten and first grades.

391A,B. Choral Conducting (2,2) F, S

Principles, techniques, and methods of conducting choral groups. Laboratory work with class and vocal ensembles, using standard choral repertoire. Required of all music education majors.

392A,B. Instrumental Conducting (2,2) F, S

Principles, techniques, and methods of conducting orchestral and band groups. Laboratory experience in conducting instrumental groups, using standard instrumental literature.

451. Music of the Baroque Period (2) F

Prerequisite: Mu 351A,B or consent of instructor. Musical forms, styles, and performance practices of the Baroque period. Detailed analysis of significant representative works. Two hours lecture and discussion, one hour weekly listening.

452. Music of the Classic and Romantic Period (2) S

Prerequisite: Mu 351A,B or consent of instructor. A study of the history and literature of music from approximately 1750 to 1900. Detailed analysis of important representative works. Two hours weekly lecture and discussion. One hour per week listening.

453. Twentieth Century Music (2) S

Prerequisite: Mu 351A,B or consent of instructor. Developments in the music of Western Europe and the Western Hemisphere since 1890. Intensive study of contemporary music and its structure.

458. Collegium Musicum (2) S

The study and performance of rare and old music, both instrumental and vocal. Techniques of musical research will be applied. Students should be competent performers.

498. Senior Recital F. S

Presentation of a public recital in principal area of performance concentration.

500. Introduction to Graduate Study in Music (2) F, S

Required of all graduate music majors. Study of basic bibliography, literature, and research techniques and materials useful in graduate music study.

523. Advanced Orchestration (2) S

Analysis and practice of traditional and contemporary orchestration techniques. Scoring of music for large ensembles such as orchestra, band, chorus and orchestra, or band and orchestra.

550. Seminar in Music History (2) F

Prerequisite: Mu 351A,B and consent of instructor. Detailed investigation and analysis of specific developments in musicology including exercises in transcriptions from old notations and historical investigations prepared by members of the seminar.

591. Advanced Choral Conducting and Interpretation (2) F

Prerequisite: Mu 391B, conducting experience, or consent of instructor. Advanced problems in choral conducting techniques, with emphasis on laboratory work with student groups and in concert conducting.

592. Advanced Instrumental Conducting and Interpretation (2) S

Prerequisite: Mu 392B, conducting experience, or consent of instructor. Advanced study of baton technique with emphasis on interpretive and stylistic problems in the conducting of major works. Students will be expected to prepare works for public performance.

598. Thesis or Project (3-6) F, S

Individual investigation of specific problems in the area of concentration by candidates for the M.A. Degree.

MUSIC EDUCATION

IN THE DIVISION OF FINE AND APPLIED ARTS

(Offered by the Department of Music)

430. Special Projects in Music Education (1-3) F, S

Advanced projects relating to particular areas of teaching specialization for teachers and supervisors of music. Instructor's permission required.

435. Children's Literature in Music (2) F. S

Prerequisite: Mu 333 or consent of instructor. A survey of books and listening materials for pre-school and elementary age children, with techniques of presentation. Designed for the classroom teacher or general student.

441. Teaching Music Theory and Appreciation in the Public Schools (2-3*) F

Prerequisite: 20 units in music, Education Found. 311, or consent of instructor. Required of all music majors working for the Standard Teaching Credential, Secondary Specialization. The history and organization of the teaching of music theory and appreciation in the public schools. Interrelation of general and specialized classes and their place in the total school program. Music literature, materials, and techniques for producing effective musical growth.

442. Teaching Vocal Music in the Public Schools (2-3*) S

Prerequisite: 20 units in music, Education Found. 311, senior class standing or consent of instructor. Required of all music majors working for the Standard Teaching Credential, Secondary Specialization. The history and organization of the teaching of vocal and choral music in public education. Planning sequential vocal training and performance organizations for the total school program. Study of choral literature and techniques of instruction.

443. Teaching Instrumental Music in the Public Schools (2-3*) S

Prerequisite: 20 units in music, Education Found. 311, senior standing or consent of instructor. Required of all music majors working for the Standard Teaching Credential, Secondary Specialization. The history and organization of the teaching of instrumental music in public education. Study of music literature and appropriate curricula for the development of concert bands, symphony orchestras, and chamber music ensembles for the total school program.

545. Supervision and Administration of Music in the Public Schools (2) S

Open to music education majors with teaching experience. Philosophy, principles and practices of supervision of music in the public elementary and secondary schools. Emphasis on modern principles of leadership, types of services, organization, management and evaluation of programs of instruction. Required of candidates for supervisory credential.

749. Student Teaching in Music in the Secondary School (6) F, S

See page 156 for description and prerequisite.

PHILOSOPHY IN THE DIVISION OF HUMANITIES

110. Comparative Study of the World's Great Religions (3) S

A study of man's religious impulse as viewed from the philosophical standpoint. An attempt will be made to analyze and to compare religious experience as expressed in Christianity, Islam, Buddhism, Hinduism, etc.

210. Logic (3) F, 5

Analysis of the various forms given to propositions and the basic requirements necessary for valid inference.

211A. Classical Schools of Philosophy (3) F

Classical emphases concerning metaphysics, knowledge and related enquiries.

211B. Classical Schools of Philosophy (3) S

Classical emphases concerning man's social relations and human values.

^{*} Students without teaching experience must register for three units credit in one of the following: Mu 441, 442, or 443, and must allow sufficient time in their schedules at the same hour each day so that they can serve as teacher aides in public schools.

250. Philosophy of Ideas (3) F, S

Analysis of basic ideas which have shaped modern thought.

310. Ethics (3) F, S

An analysis of the problems of human conduct: motivation, valuing, norms, social demands, and personal commitments.

311. Philosophy of Aesthetics (3) F, S

An investigation into the conditions and the aims of aesthetic experience.

331. History of Philosophy: Rationalism and Empiricism (3) F

The rationalism of Descartes, Spinoza, and Leibniz, and the empiricism of Locke, Berkeley, and Hume.

332. History of Philosophy: Kant and the 19th Century (3) 5

The empiricistic and rationalistic influences on Kant, followed by a study of the major trends in 19th century philosophy.

340. Logic and Epistemology (3) F

An investigation into the connections that obtain between valid principles of reasoning and various systems of knowledge and belief.

347. Selected Problems in Philosophy (3) F

An investigation into the significant contributions made to human culture through philosophic analysis.

368. Symbolic Logic (3) F

The recognition and construction of correct deductions in the sentential logic and the first-order predicate calculus with identity.

382. Contemporary Philosophy (3) F

A survey and analysis of the main trends of 20th century philosophy. Emphasis will be placed on such trends as Pragmatism, Linguistic Analysis, and Existentialism.

407. Seminar in Basic Concepts of Philosophy and Psychology (3) F, S

Prerequisites: 3 units in both philosophy and psychology. An interdisciplinary study of significant interrelationships which obtain between basic concepts common to both philosophy and psychology.

412. Metaphysics (3) S

An examination of the philosophical problems of Freedom and Determinism, Mind and Body, Time and Becoming, Causation, Deity, Substratum, Personal Identity.

417A. Seminar in Aristotle's Scientific and Speculative Views (3) F (Offered in alternate years)

An intensive study of the great philosopher's views concerning the nature and function of science, logical reasoning, and the status of universals.

417B. Seminar in Aristotle's Social and Aesthetic Views (3) S (Offered in alternate years)

A study of the problems of human conduct, government and art.

427A. Seminar in Spinoza's Ethics and Metaphysics (3) F

A detailed and critical study of Spinoza's views concerning the nature of man and the problems of conduct as developed in the *Ethics*.

427B. Seminar in Spinoza's Political Theory (3) S

A detailed and critical study of the Tractatus Politicus and the Tractatus Theologico-Politicus.

437A. Seminar in the Philosophy of William James (3) F

A detailed study of James' psychological and epistemological views.

437B. Seminar in the Philosophy of William James (3) S

A detailed study of James' social, ethical, and religious views.

447A. Seminar in the Development of Plato's Philosophy (3) F

A critical and detailed study of the early and middle *Dialogues*, terminating with *The Republic*.

447B. Seminar in Plato's Later Dialogues (3) S

A critical and detailed study of the later *Dialogues* which follow *The Republic*, terminating with *The Laws*.

450. Philosophy of Science (3) S

An investigation into the methodologies of the deductive and inductive sciences.

451. Philosophical Backgrounds of Modern Literature (3) F, S

The connection between representative writers and such thinkers and philosophers as Freud, Spengler, Schopenhauer, Nietzsche, and Kierkegaard. (Same as English 451.)

457A. Seminar in Hume's Philosophy of Science (3) F

A detailed study of Book I of the Treatise on Human Nature and the Enquiry Concerning Human Understanding.

457B. Seminar in Hume's Ethical Views (3) S

A detailed study of the Dialogues Concerning Natural Religion and the Enquiry Concerning the Principles of Morals.

460. Philosophy of History (3) S

A study of the metaphysical and the logical problems of History.

467A. Kant's Theory of Knowledge (3) F (Offered in Alternate Years)

A critical and detailed study of The Critique of Pure Reason.

467B. Kant's Theory of Ethics and Aesthetics (3) S (Offered in alternate years)

A critical and detailed study of The Critique of Practical Reason and The Critique of Judgment.

499. Independent Study (1-3) F, S

Prerequisites: Minimum of 12 units in Philosophy and approval of the Department. Such study is designed to develop greater competency in research. May be repeated for credit.

PHYSICAL EDUCATION

IN THE DIVISION OF EDUCATION

(Offered by the Department of Health Education, Physical Education, and Recreation) Required Activity Courses

All students must successfully complete four semesters of physical education activity courses as partial fulfillment of the General Education requirements for the baccalaureate degree. Each course carries ½ unit credit. The Department of Physical Education recommends that the student begin this program with the first semester of attendance (summer session courses in physical education do not fulfill this requirement). Other than exceptional cases, students will be expected to complete this requirement prior to the last thirty units of their baccalaureate degree program. Not more than six units of credit in physical education activities, including intercollegiate athletics courses, may be applied toward credit for graduation. Credit in intercollegiate athletics courses may meet not more than two semesters of the college General Education requirement in physical education. Physical education activities courses may not be repeated for credit.

Physical education activities courses are designed to offer the student opportunities to develop optimal skills, knowledge, and confidence for mental, social, and physical fitness objectives for educational, recreational, and utilitarian purposes in our democratic society. The program is organized and conducted on a planned basis in four instructional areas: (1) Aquatic Activities, (2) Group and Team Ac-

tivities, (3) Individual Activities, and (4) Dance Activities.

. FOR MEN

AQUATIC	GROUP AND TEAM	INDIVIDUAL	DANCE
ACTIVITIES:	ACTIVITIES:	ACTIVITIES:	ACTIVITIES:
(PE 110 Series)	(PE 120 Series)	(PE 130 Series)	(PE 140 Series)
111 m Swimming F, S	121 m Group Games F 122 m Group Games S	131 m Gymnastics, Tumbling, and Rebound Tumbling F, S 132 m Combatives F, S 133 m Physical Conditioning F, S 134 m Adapted Physical Education F, S 135 m Track and Field F, S	223. Physical presidents our rapidly characteristic of the child, and the child,

. FOR WOMEN

111 w Swimming F, S		131 w Gymnastics,	Ha SHE IN FAIRE
	Games F	Tumbling,	PAGE OF THE PARTY
	122 w Group	and Rebound	West to be
	Games S	Tumbling F, S	
	Adams were bounded by the Bull	133 w Physical Condi-	TEAM, UTO GOM FRO
	The same and the same and the same	tioning F, S	service and the service of the
		134 w Adapted	
	DETERMINED TO STREETING	Physical	SUSTREE T PRODUKTSU
	de pised sdr.lo assu	Education F, S	sourse presents the

. CO-EDUCATIONAL

113 Life-Saving and Water Safety F, S	F, S	123 Group Games (Open only to prospective elementary	136 Archery 137 Golf 138 Tennis		141 Social Dance F, S 142 Folk and Square Dance F, S 143 Modern Dance S
	lq 3	school teachers.) F, S	dully compl	esoous :	

COURSES IN INTERCOLLEGIATE ATHLETICS

Consent of the coach of the sport is required for enrollment. Each semester of enrollment carries 1 unit of credit. Credit in intercollegiate athletics courses may meet not more than two semesters of the college general education requiement in physical education. Not more than six units of credit in physical education activities, including intercollegiate athletics courses, may be applied toward credit for graduation.

PE 317. Baseball (1) S

PE 318. Basketball (1) F, S

PE 319. Cross-Country (1) F

PE 321. Golf (1) S

PE 324. Tennis (1) S

PE 325. Track and Field (1) S

PE 201. Introduction to Physical Education (2) F

Introduction to the physical education programs in public and private agencies; personal, social, and professional requirements; and demands on the physical education teacher.

PE 333. Physical Education and Human Development (3) F, S

Prerequisite: Educ. Found. 311. The meaning of physical education and its place in our rapidly changing world and educational system. Includes orientation and interpretation of the philosophies and theories. Emphasis is placed on characteristics of the child, particularly as these relate to physical growth and development; basic mechanical principles underlying efficient human movement; and essentials for development of effective programs of physical education for children in the elementary school.

PE 749. Student Teaching in Physical Education in the Secondary School (6) F, S

See p. 156 under Education Secondary section for description and prerequisites.

PHYSICAL SCIENCE

IN THE DIVISION OF SCIENCE, MATHEMATICS, AND ENGINEERING
(Offered by the Departments of Chemistry and Physics)

201. Modern Physical Science (4 or 5) F, S

Prerequisite: 1 year of high school Algebra or equivalent, or permission of the instructor. Taught jointly by the departments of chemistry and physics, this course presents the essential unifying features of the basic physical sciences, chemistry, chemistry and physics; the modern concepts of the physical and chemical

theory of atomic and molecular structure form the unifying course material. Selected physical and chemical theory (from the fields of mechanics, electricity and magnetism, light, kinetic theory, thermodynamics, quantum theory, and inorganic and organic chemistry) are included to provide the necessary background material. (4 hours lecture, 1 hour recitation per week.)

PHYSICS *

IN THE DIVISION OF SCIENCE, MATHEMATICS, AND ENGINEERING Modern Physical Science (4 or 5) F, S (See course description under Physical Science 201)

211A,B. Elementary Physics (4,4) F, S

Prerequisite: High school algebra, 1½ years; trigonometry, ½ year. Elementary physics taught without the use of calculus. Covers principally the fields of mechanics, thermodynamics, and acoustics in the first semester, and principally the fields of electricity, magetism, light, and atomic physics in the second semester. (3 hours lecture, 3 hours laboratory per week.)

221A. Fundamental Physics (5) F, S

Prerequisite: Math 150A; corequisite: Math. 150B. Fundamental classical physics including mechanics, heat and thermodynamics, acoustics, and wave motion. (4 hours lecture, 3 hours laboratory per week.)

221B. Fundamental Physics (5) F, S (Formerly 222)

Prerequisite: Physics 221A. Fundamental classical and modern physics, including physical optics, electricity and magnetism, and an introduction to modern physics. (4 hours lecture, 3 hours laboratory per week.)

221C. Fundamental Physics (3) F, S (Formerly 223)

Prerequisite: Physics 221B. Fundamental physical concepts are presented in a unifying framework, using the postulational approach. The five major theories: classical mechanics, relativity, electricity, quantum mechanics, and statistical mechanics form the principal material for this course, which is designated for the student who has just completed the 10 unit sequence, Physics 221A and 221B. (3 hours lecture per week.)

411. Theory of Wave Motion (3) F

Prerequisites: Physics 221B, Mathematics 150B. The properties of wave motion: production, propagation, refraction, diffraction, interference, and transmission through surfaces of waves, as applied to physical optics, acoustics, heat radiation, and wave mechanics. (3 hours lecture per week.)

416. Thermodynamics and Introduction to Kinetic Theory (3) S

Prerequisites: Physics 221B, Mathematics 250B. A postulational study of thermodynamics with emphasis on thermodynamic states rather than on thermodynamic processes. An introductory course in the basic concepts and postulates, conditions of equilibrium, formal relationships, processes and thermodynamic engines, stability of thermodynamic systems, first- and second-order phase transitions, the Nernst postulate, and representative applications. (3 hours lecture per week.)

^{*} For all courses, prerequisites not requiring consent of the department chairman may be waived by the instructor of the course if he is satisfied that the student is qualified to undertake the course. A grade of C or better is required for all prerequisite courses.

431. Electricity and Magnetism (3) F

Prerequisites: Physics 221B, Mathematics 250B. Theories of electrostatics, electrodynamics, and electromagnetic waves. Introduction to magnetohydrodynamics. (3 hours lecture per week.)

441. Analytical Mechanics (3) S

Prerequisites: Physics 221B, Mathematics 250B. Principles of Newtonian mechanics applied to the statics and dynamics of particles and rigid bodies. Introduction to Lagrangian and Hamiltonian equations. (3 hours lecture per week.)

451. Modern Physics (3) (Offered in alternate years)

Prerequisites: Physics 221B, Mathematics 250B. Discussion of experiments and introduction to theory for selected topics in atomic, nuclear, and solid state physics. (3 hours lecture per week.)

452. Physics of Nuclear Radiation (3) S

Prerequisite: 1 year college physics. X-rays, radioactivity, interaction of radiation with matter, detection of radiation, applications to health physics. (3 hours lecture per week.)

453. Nuclear Physics (3) F

Prerequisites: Physics 221B, Mathematics 250B. Properties of nuclei, radioactivity, elementary particles, nuclear reactions. Introductory discussion of theories of nuclear structure and nuclear processes. (3 hours lecture per week.)

454. Introduction to the Solid State of Matter (3) (Offered in alternate years)

Prerequisite: One course in atomic or nuclear physics, differential equations. An introduction to the physical properties of matter in the solid state, as explained by atomic theory. Structural, mechanical, and growth properties of crystals; atomic bonding; electrical, magnetic, and thermal properties of metals, semiconductors, and insulators. (3 hours lecture per week.)

455. Introduction to Quantum Physics (3) (Offered in alternate years)

Prerequisites: Physics 431, Physics 441, differential equations. An introduction to the concepts and theory of quantum physics. (3 hours lecture per week.)

471. Electronic Circuit Theory (3) F

Prerequisites: Physics 221B, Mathematics 250B. Operating characteristics of vacuum tubes, transistors, and semiconductor diodes. Linear circuit theory for alternating currents and for transient currents. Introduction to switching and pulse circuits. (3 hours lecture per week.)

481A. Experimental Physics (3) F (Formerly 381)

Prerequisite: Physics 221B. Corequisite: Physics 431. Selected experiments in electrical measurements and electronics, with emphasis on precision of measurement and standardization of instruments. (1 hour lecture, 6 hours laboratory per week.)

481B. Experimental Physics (3) S (Formerly 382)

Prerequisite: Physics 481A. Corequisite: Physics 441. Selected experiments in mechanics, acoustics, physical optics, and atomic spectra. (1 hour lecture, 6 hours laboratory per week.)

481C. Experimental Physics (3) F (Formerly 481)

Prerequisite or corequisite: 1 course in nuclear or modern physics. Selected experiments in atomic and nuclear physics. (1 hour lecture and 6 hours laboratory per week.)

481D. Experimental Physics (3) S (Formerly 482)

Prerequisites: Physics 481A,B,C or consent of department chairman. Selected experiments in classical and modern physics. (1 hour lecture, 6 hours laboratory per week.)

491. Senior Report (1) F, S

Prerequisite: Consent of department chairman. Selection and design for individual project, oral and written reports. (1 hour lecture-recitation per week.)

492. Senior Report (2) S

Prerequisite: Physics 491 and consent of department chairman. Laboratory work on individual project, oral and written progress reports, oral and written final report. (1 hour lecture-recitation and 6 hours laboratory per week.)

531. Electricity and Magnetism (3) (Offered in alternate years)

Prerequisite: Mathematics through partial differential equations. An advanced course in eletromagnetic field theory beginning with Maxwell's equations. Treated are: vector and scalar potentials, boundary value problems, electrostatics, magnetostatics, wave propagation, and related topics. (3 hours lecture per week.)

541. Analytical Mechanics (3) (Offered in alternate years)

Prerequisite: Mathematics through partial differential equations. A thorough theoretical treatment of classical mechanics including the important motions of a point, general principles of work and energy, the principle of least action, Lagrange and Hamiltonian equations, the dynamics of rigid bodies, and related topics. (3 hours lecture per week.)

555. Quantum Physics (3) (Offered in alternate years)

Prerequisite: Mathematics through partial differential equations. A course in the theory of quantum physics including the physical bases of quantum physics, operator formulation, matrix mechanics, commutator bracket formulation, perturbation theory, quantum statistics. (3 hours lecture per week.)

POLITICAL SCIENCE IN THE DIVISION OF THE SOCIAL SCIENCES

100. American Government (3) F, S

Structure and functions of the United States Government; the federal system; the organization, powers and functions of the executive, legislative, and judicial branches; the relationship between federal, state and local units of government, the structure and functions of state and local government with special attention to California. This course satisfies the state requirements in U.S. Constitution and California state and local government.

101. Introduction to Politics and Government (3) F, S

An examination of political movements, their aims, strengths and ideologies. Contemporary issues at all levels of government; resultant patterns, with emphasis on their form in the United States and in California. This course satisfies the state requirement in U.S. Constitution.

306. Research Methods in Political Science (3) F, S

An introduction to the fundamentals of Political Science as a discipline. Areas of study, and appropriate concepts and methods of analysis. Distinctions between evaluation and description, law and politics, state and society. This course is intended for students who will be taking upper division Political Science, and is required of Political Science majors.

311. State and Local Government (3) F, S

Development and role of state constitutions; the political, administrative and judicial systems of state, county, and city governments; relations of local governments to the state government, with special reference to California. This course satisfies the state requirement in California state and local government.

312. Political Parties and Pressure Groups (3) F

The American two-party system; party organization, nominating procedures, campaign methods; problems of party responsibility and party leadership. The power and growth of farm, labor, business, and non-economic pressure groups; interest-group activity in Congress, administration, and courts.

320. Introduction to Public Administration (3) F

Prerequisites: Political Science 100 and 311, or consent of the instructor. The nature and scope of public administration and its role in a democratic society; basic problems in the execution of public policies in the federal, state and local government units, such as organization, personnel, finance, internal management, administrative powers and responsibilities, intergovernmental relationships, and the impact on administration of public opinion.

331. Governments and Politics of Major Powers (3) F

Governmental structures, policies, and problems of major powers in Europe and Asia; constitutional characteristics; major political parties; election systems; federalist and unitarian features; comparative analysis.

340. Democracy and Communism (3) F

Recommended for non-majors. The democratic tradition, especially in the United States and Great Britain; the theory and practice of Communism in Soviet Russia, Yugoslavia, and Red China; authoritarian political thought in Italy, Germany, and Spain.

341. Fundamental Principles of Political Theory (3) F

Problems of the relationship of man and morality in their relationship to the state; emphasis on the period from Plato to the Renaissance.

342. Specific Problems in Political Theory (3) S

Problems of liberty and obligation, of forms of government and of the economy; emphasis on the period from the Renaissance to the present day.

351. International Relations (3) F, S

A study of the diplomatic, political, economic, and cultural relations of nations; the modern systems of nation states; basic factors of power; sovereignty, nationalism; imperialism; colonialism, the rise to influence of the developing nations; the peaceful settlement of disputes.

411. The Judicial Process (3) F

Prerequisite: Political Science 100 or consent of the instructor. The nature of the American judicial system; the courts in a federal system and their relationship to other branches of government. A study of the adversary process and the jury system. Judicial review and the political uses of the political process.

413. Constitutional Law (3) S

Prerequisite: Political Science 100 or consent of the instructor. Judicial decisions and precedents concerning the powers of government. Civil liberties, voting rights, war powers, business and labor regulation, apportionment and political parties.

414. The Legislative Process (3) S

Prerequisite: Political Science 100. The nature of the legislative process in the United States including the organization and procedures of legislative bodies, direct legislation and the relationships of the legislative branch to other branches of government. Comparative legislative systems will be analyzed.

415. Public Opinion and Political Behavior (3) F

Prerequisite: Political Science 100. The nature of public opinion in democratic and totalitarian societies; the manipulation of public opinion by interest groups, party organizations and government agencies. The relationship of propaganda to other forms of political power. The methods and uses of polls and opinion studies.

416. The American Presidency (3) S

Prerequisite: Political Science 100. A study of the growth of the office and power of the President, of his relationship to his advisers and the executive departments, Congress and the courts, state governments and the public. The role of the President as chief policy-maker and administrator, party and public opinion leader, with particular attention to developments during international and domestic crises.

420. Local Government and Administration (3) F (Formerly 423)

Prerequisite: Political Science 100 or consent of instructor. The organization of municipal, county and other units of local government and the techniques used to accomplish their objectives.

421. Government Finance Administration (3) S

Prerequisite: Political Science 320 or consent of the instructor. The role of finance administration and budgeting in the determination of public policy, and in the administrative planning and management of governmental operations. Examines the relationship of assessment administration to governmental revenues and expenditures, the principles and practices of cost accounting, treasury management, and capital budgeting.

422. Public Personnel Administration (3) F

Prerequisite: Political Science 320 or consent of the instructor. The growth and development of the civil service and the merit system; an evaluation of recruitment procedures and examinations; an analysis of such topics as position classification, salary structures, retirement plans, in-service training, employee organizations, and personnel supervision.

424. City and Regional Planning (3) F

Prerequisite: Political Science 320 or consent of the instructor. The origins and development of city and regional planning; the legal bases and fundamental concepts of planning are defined; and the organization and administration of the planning activity are examined. Attention is given to the major elements of the General Plan, zoning laws and administration, urban renewal, and capital programming.

426. Government Organization and Management (3) 5

Prerequisite: Political Science 320 or consent of the instructor. An analytical examination of public administration organization, and the techniques and processes of public management; the growth and development of bureaucratic administration; the functions of administrative authority; and the importance of communication, coordination, and leadership to organizational action.

429. Government Internship (3-6) F, S

Prerequisite: Public Administration concentration and consent of the instructor. Supervised work experience in governmental agencies for the purpose of increasing student understanding of the nature and scope of governmental operations. Supervision is provided by the faculty and cooperating agencies. Student time required in an administrative assignment ranges from five to twenty hours per week, depending upon the number of credits sought and whether compensation is involved.

432. Government and Politics of Great Britain (3) S

Prerequisite: Political Science 331 or consent of the instructor. The history and dynamics of the British system; constitutionalism; society and the class structure; parties, public opinion and pressure groups; the formal and informal centers of power.

433. Government and Politics of Soviet Russia (3) F

Prerequisite: Political Science 331 or consent of the instructor. The principles of Marxism-Leninism underlying the Soviet government, as modified by Stalin and successors; constitutional provisions and political practices; the Communist party and mass organization; elections and election campaigns; the press; education and religion; relations to the international Communist movement and the other Communist governments.

434. Government and Politics of France (3) F

Prerequisite: Political Science 331 or consent of the instructor. Divisions in French society and their effect on the political institutions; traditions of authoritarianism and democracy, of stability and instability. Comparison of the basic features of the 5th French Republic with previous French constitutional structures; future possibilities.

435. Government and Politics of Germany (3) S

Prerequisite: Political Science 331 or consent of the instructor. A comparative study of basic features of German government and parties under the Empire, Weimar Republic, National Socialism, and the present Bonn Republic. The East-"German Democratic Republic" is studied as an example of a West European country under Communist rule.

436. Government and Politics of Developing Societies (3) S

Prerequisite: Political Science 331 or consent of the instructor. A study of political institutions, structure and traditions in selected developing countries. Transition of traditional states into modern states; impact of foreign ideologies; reformist and revolutionary experiments; the impact of anti-colonialism and nationalism; the role of the military. Constitutional developments; political parties; problems of administration.

440. Recent Political Thought (3) F

Prerequisite: Political Science 341 or 342 or consent of the instructor. A study of selected modern political thinkers.

442. American Political Thought (3) S

Prerequisite: Political Science 100. American political thought from the Colonial period to the present day including leaders such as Thomas Jefferson, Henry Clay, Abraham Lincoln, Woodrow Wilson, and Walter Lippmann.

443. Political Theories of Communist States (3) S

Prerequisite: Political Science 341, 342, or consent of the instructor. A study of the political theory of Marxism from its pre-Hegelian roots to the contemporary revisions in Soviet Russia, Yugoslavia, Cuba and Red China.

451. Problems in International Relations (3) S

Prerequisite: Political Science 351 or consent of the instructor. Examination of selected problems in various countries and geographic areas with a definite impact on International Relations, such as nationalism, colonialism, anti-colonialism, neutralism, racism, ethnic and linguistic minorities, border disputes, governmental instability, economic poverty, disease, illiteracy and overpopulation.

452. American Diplomacy (3) F, S

Prerequisite: Political Science 351 or consent of the instructor. The formulation of American foreign policy and conduct of diplomacy; evaluation of both traditional and current practices, policies, and proposed major changes.

453. Foreign Policy Formulation (3) S

Prerequisite: Political Science 331 or 351 or consent of the instructor. A seminar type discussion of the formulation and implementation of the foreign policy of a selected country or countries with particular reference to the implementation of that policy in the United Nations, regional organizations or alliances. May be repeated for credit.

454. The Soviet Union in World Affairs (3) S

Prerequisite: Political Science 351, 433 or consent of the instructor. Theory and practice of Soviet Russia's foreign policies; the international relations theories of Marx, Lenin, Stalin, and Khrushchev; practices of the Kremlin; world strategy and tactics of the Soviet Communist movement.

460. International Law (3) S

Prerequisite: Political Science 351 or consent of the instructor. The sources and nature of international law; its role in a world of sovereign states; the law of war and peace; the rights and duties of nations in their international relationships. The World Court; purpose, problems, and prospects.

461. The United Nations and Other Public International Organizations (3) F

Prerequisite: Political Science 351 or consent of the instructor. The nature, scope, and role of public international organizations; evaluation of the League of Nations; analysis of the United Nations; its functions, purposes and problems; role of the World Court; International Labor Organization. Functions of UNESCO, UNICEF, and similar organizations.

463. The International Relations and Problems of Latin America (3) S

The relation of Latin American states with each other, the United States, Soviet Russia, and China; the organization of American States and the United Nations; domestic philosophies and problems affecting their international outlook and policies.

499. Independent Study (1-3) F, S

Open to advanced students in Political Science by permission of the department chairman. May be repeated for credit.

501. Seminar in Political Science (3) S

Prerequisite: Consent of the instructor. Selected studies in political science with emphasis on individual research and contributions. May be repeated for credit.

511. Advanced Studies in American Politics (3) 5

Prerequisite: Consent of the instructor. A comprehensive examination of the political process in the United States.

521. Seminar in Public Administration (3) S

Prerequisite: Consent of the instructor. Advanced study in the theory and practice of public administration. Attention will be given to selected problems in governmental administration, with emphasis on individual research and student contributions. May be repeated for credit.

526. Seminar in Public Administrative Behavior (3) S

Prerequisite: Consent of the instructor. Concepts, functions and techniques of administrative leadership; group dynamics; decision making; the organization and the individual.

551. Advanced International Relations (3) F

Prerequisite: Consent of the instructor. Study of selected problems in international relations with emphasis on individual research and contributions within the framework of a seminar. May be repeated for credit.

599. Independent Study and Research (1-3) F, S (Formerly 500)

Open to graduate students only by permission of the chairman of the department. May be repeated for credit.

PORTUGUESE

IN THE DIVISION OF HUMANITIES

(Offered by the Department of Foreign Languages and Literatures)

101. Fundamental Portuguese (4) F

Listening-comprehension, speaking, reading-comprehension, and writing to develop control of the sounds and the basic forms and structure of Portuguese (3 hours lecture-discussion, 2 hours laboratory).

102. Fundamental Portuguese (4) S

Prerequisite: Portuguese 101 (or equivalent). Listening-comprehension, speaking, reading-comprehension, and writing to develop control of the sounds and the basic forms and structure of Portuguese (3 hours lecture-discussion, 2 hours laboratory).

203. Intermediate Portuguese (3) F

Intensive practice in speaking, understanding, reading, and writing based on cultural and literary materials. Linguistic analysis from sound to sentence. (3 hours lecture-discussion, 1 hour laboratory)

204. Intermediate Portuguese (3) S

Prerequisite: Portuguese 203 (or equivalent). Intensive practice in speaking, understanding, reading and writing based on cultural and literary materials. Linguistic analysis from sound to sentence. (3 hours lecture-discussion, 1 hour laboratory)

PSYCHOLOGY IN THE DIVISION OF THE SOCIAL SCIENCES

101. Introductory Psychology (3) F, S

General introduction to basic concepts and problems in psychology as a behavioral discipline. Emphasis upon the human organism as an adapting system, with attention to genetic origins; normal development and capacities; problem-solving and adjustment to stress.

161. Elementary Statistics (3) F, S

An introductory course in descriptive statistics with an introduction to inferentive methods.

202. Principles of Psychology (3) F, S

Prerequisite: Psych. 101. A course for psychology majors covering selected basic areas of psychology in depth. Special emphasis on the methods of studying physiological factors, adaptive behavior, perception, cognition and motivation.

Two hour lecture and three hour laboratory.

231. Psychology of Personal Adjustment (3) S

Prerequisite: Psychology 101. Dynamics of personal adjustment and interpersonal relations. Nature of conflict and frustration; demands of changing social roles; and attitudes, opinions and prejudices as they affect the individual and his relationships to others.

302. Experimental Psychology: Learning and Motivation (3) F

Prerequisites: Psych. 101, 202, 161 or permission of instructor. Experimental investigation in human and animal learning, memory, thinking, problem solving, and motivation with appropriate lecture and discussion. Two hour lecture and three hour laboratory.

303. Experimental Psychology: Sensation and Perception (3) 5

Prerequisites: Psych. 101, 202, 161 or permission of instructor. Experimental methods as applied to sensation and perception. Two hour lecture and three hour laboratory.

311. Educational Psychology (3) F, S

Application of psychological research and theory to the educative process. Major attention given to the problems of learning, individual differences, child capacities, and behavior. (Not open to students who have taken Educ. 311.)

321. Physiological Psychology (3) F (Formerly 421)

Survey of relations between behavior and biological processes. Anatomy and physiology of the nervous system, role of neural and humoral agents in perception and complex behavior (emotion, etc.), behavioral effects of brain lesions, the effects of drugs on behavior, psychosomatic disorders and motivation.

331. Psychology of Personality (3) F

Concepts of personality development, structure, and dynamics, with emphasis upon problems, methods, and findings in the study of personality.

341. Abnormal Psychology (3) F, S

Dynamics, symptoms, causes, treatment, and prevention of neuroses, psychoses, alcohol and drug addiction, psychosomatic illnesses, and character disorders. Field trips as arranged.

342. Mental Health (3) S

Social and emotional dynamics of the adjustment processes. Emphasis upon positive factors in the individual, group, and community conducive to improving mental health. (Credit not given as part of psychology major.)

351. Social Psychology (3) F

Study of phenomena of social interaction and the nature of group processes and influences. Attention paid to the intra-psychic effects of group influences. (Credit not given for both Psych. 351 and Soc. 341.)

391. Industrial Psychology (3) F

Study of psychological principles and techniques in industrial and business settings. Includes selection, placement, training, human factors, promotion, environmental influences, and problems of people at work.

408. History of Psychology (3) F, S

Prerequisites: 12 upper division units in psychology or permission of instructor. Survey of the development of psychology from early times to the present.

412. Psychology of Learning (3) S

Prerequisite: Psych. 302 or permission of instructor. Variables, processes, influences, factors, conditions, and elements of learning according to the major theoretical systems. Critical evaluation of the theories.

413. Perception (3) S

Prerequisite: Psych. 303 or permission of instructor. Psychological problems in perception. Emphasis on dynamic conception of the process of perception; relationship of perception to learning, cognition, and motivation.

431. Theories of Personality (3) 5

Prerequisite: Psych. 331 or permission of instructor. Personality structure, development, and dynamics according to major theories. Research methods as they apply to personality theory.

461. Group Psychological Testing (3) F, S

Prerequisite: Psych. 161 or equivalent. Intelligence, aptitude, interest, and personality testing. Theory, construction, evaluation, interpretation, and uses of psychological tests.

465. Advanced Psychological Statistics (3) S

Prerequisite: Psych. 161 or permission of instructor. Quantitative methods in psychology with particular emphasis on correlation, small sample theory, non-parametrics and some complex analysis of variance procedures.

481. Survey of Clinical Psychology (3) F

Prerequisites: Psych. 341, 431, and 461. Development and contemporary aspects of the field. Methods, diagnosis, therapeutic techniques, research, and problems.

499. Independent Study (1-3) F, S

Prerequisites: Senior standing and permission of instructor. Individual library study or experimental investigation under direction of a staff member. May be repeated for credit.

500. Advanced General Psychology (3) F, S

An integration of key concepts in learning, motivation, perception, personality and social psychology.

510. Experimental Design (3) F, S

Prerequisites: Psych. 161 and 465. Principles and methods of planning and carrying out systematic investigations on the behavior of complex organisms, interdependence of experimental design and statistical evaluation of results, and the opportunity for practice in formulation of testable hypotheses.

531. Individual Mental Testing (3) S (Formerly 462)

Prerequisite: Psychology 461. Study of the major tests of intelligence. Emphasis upon practical experience in administration, scoring, and interpretation of these instruments. Two hours of lecture and two hours of activity sessions.

QUANTITATIVE METHODS

IN THE SCHOOL OF BUSINESS ADMINISTRATION AND ECONOMICS (Offered by the Department of Marketing and Quantitative Methods)

264. Computer Programming (1) F, S

Introduction to problem oriented languages of computers. The solving of problems using computer programming methods and techniques.

361. Business and Economic Statistics (3) F, S

Prerequisite: Math 120 or equivalent. The collection, analysis and presentation of statistical data; theory of probability, sampling, experimental method, correlation, time series and index numbers, and their application to business and economic problems.

362. Introduction to Econometrics (3) F, S

Prerequisites: Quant. Meth. 361 (to have been taken or being taken concurrently) and Economics 200A,B. An introduction to basic mathematical tools and their application in economic analysis. The measurement and verification of economic relationships by statistical methods. Consideration of some econometric models.

364. Computer Logic and Programming (3) F

Prerequisite: College algebra or equivalent. An introduction to computer logic including elements of symbolic logic and number systems; programming methods and techniques.

461. Advanced Statistics (3) F

Prerequisites: Math. 150B or equivalent, Quant. Meth. 361. An advanced treatment of the theory and application of the topics covered in Quant. Meth. 361, using the methods of the calculus where appropriate.

462. Mathematical Models in Business and Economics (3) 5

Prerequisites: Math. 120, Quant. Meth. 361, and Math. 150A, or Quant. Meth. 362, or equivalent. The construction and application of mathematical models to business decisions and economic analysis.

463. Statistical Decision Theory (3) 5

Prerequisites: Math. 120 and Quant. Meth. 361. The analysis and application of advanced statistical techniques to the problems of management decision-making under conditions of uncertainty.

560. Operations Research (3) F, S

Prerequisites: Math. 150B, or equivalent, and Quant. Meth. 361, or consent of the instructor. An examination of the nature and scope of operations research, its methodology, and applications. Emphasis will be placed on model construction and models on inventory control, queuing, sequencing, scheduling, replacement, and mathematical programming.

RECREATION

IN THE DIVISION OF EDUCATION

(Offered by the Department of Health Education, Physical Education, and Recreation)

Rec 202. Theory of Recreation (2) F (Formerly 443)

Prerequisite: Consent of the instructor. Introduction to recreation principles; planning, organizing, administering, and evaluating recreation programs. Personal, social, and professional requirements of the recreational leader. (1 hour lecture, 2 hours activity.)

Rec 203. Recreation Programs and Activities (2) 5 (Formerly 444)

Prerequisite: Consent of the instructor. Theory and activity course, leadership in recreation programs, activities in recreation agencies. Laboratory experiences and practice included. (4 hours activity per week.)

RUSSIAN

IN THE DIVISION OF HUMANITIES

(Offered by the Department of Foreign Languages and Literatures)

101. Fundamental Russian (5) F, S

Intensive practice in listening-comprehension, speaking, reading and writing to develop control of the sounds and the basic forms and structure of Russian. Audiolingual assignments are an integral part of the course and are to be prepared in the Language Laboratory.

102. Fundamental Russian (5) F, S

Prerequisite: Russian 101 (or equivalent). Intensive practice in listening-comprehension, speaking, reading and writing to develop control of the sounds and the basic forms and structures of Russian. Audio-lingual assignments are an integral part of the course and are to be prepared in the Language Laboratory.

203. Intermediate Russian (3) F

Prerequisite: Russian 102 (or equivalent). Intensive practive in speaking, understanding, reading, and writing based on cultural and literary materials. Linguistic analysis from sound to sentence. (3 hours lecture-discussion, 1 hour laboratory)

204. Intermediate Russian (3) S

Prerequisite: Russian 203 (or equivalent). Intensive practice in speaking, understanding, reading and writing based on cultural and literary materials. Linguistic analysis from sound to sentence. (3 hours lecture-discussion, 1 hour laboratory)

400. Russian for Advanced Students and Teachers (3) F

Intensive review of spoken Russian, using recent developments in methodology and texts as subject material.

499. Independent Study (1-3) F, S

Supervised projects in Russian language or literature to be taken with the consent of the Department Chairman as a means of meeting special curricular problems. Selection of subject to be studied varies. May be repeated for credit.

SCIENCE EDUCATION

IN THE DIVISION OF SCIENCE, MATHEMATICS, AND ENGINEERING (Offered by the Department of Science and Mathematics Education)

432. Teaching Science in the Elementary School (2) F, S

Prerequisites: Educ. Found. 311 (or equivalent), a science course or consent of the instructor. Objectives and methods of science teaching at the elementary school level are developed. Demonstrations and student experiences are provided in organizing and presenting science lessons appropriate at the various grade levels. The new elementary school science curriculum projects are investigated.

442. Teaching Science in the Secondary School (2-3) F, S

Prerequisites: Educ. Found. 311 (or equivalent), or consent of the instructor. Objectives, methods and techniques of science teaching are investigated. Student activities include the formulation and carrying out of teaching plans, the use of equipment and materials peculiar to science instruction, and the direction of laboratory experiences. Students without teaching experience must register for three units credit, and must allow sufficient time in their schedules to serve as teacher aides at the same hour each day.

443. Secondary Science Education—Biology (3) F

Prerequisites: Sci. Educ. 442 (or equivalent) or consent of the instructor. Educational practices particular to the teaching of biology are studied. Special emphasis is placed on recent curricular developments in this area. Presently the course is designed to instruct teachers in the theory, content and methodology developed by the Biological Sciences Curriculum Study (B.S.C.S.).

444. Secondary Science Education—Chemistry (3) 5

Prerequisites: Sci. Educ. 442 (or equivalent) or consent of the instructor. Similar to Sci. Educ. 443 with the emphasis on chemistry. Presently the course is oriented the programs developed by the Chemical Educational Materials Study (C.H.E.M.S.) and the Chemical Bond Approach (C.B.A.) to teaching chemistry. Needs of participating teachers will determine which program will be emphasized.

445. Secondary Science Education—Physics (3) F

Prerequisites: Sci. Educ. 442 (or equivalent) or consent of the instructor. Similar to Sci. Educ. 443 with the emphasis on physics. Presently the course is orientated around the Physical Science Study Committee program (P.S.S.C.).

499. Independent Study (1-3) F, S

Science teachers who wish to develop new courses and/or materials for their particular areas of instruction may do so under the guidance of members of this department. May be repeated for credit.

710. Seminar in Science Education (2) S

Prerequisites: An A.B. degree, teaching credential, or consent of instructor. Designed for postgraduate science students who wish to investigate recent developments in teaching the sciences. New courses and materials for the various subject

matter fields will be researched and demonstrated. Areas of concentration will depend on interests and training of the seminar participants. May be repeated for credit.

749. Student Teaching in Science in the Secondary School (6) F, S

See page 156 under Secondary Education for description and prerequisites.

SOCIAL SCIENCES EDUCATION IN THE DIVISION OF EDUCATION

432. Teaching Social Sciences in the Elementary School (2) F, S

Prerequisites: Educ. Found. 311, admission to teacher education. Principles, methods and materials of teaching the social studies in the elementary school.

442. Teaching Social Sciences in the Secondary School (2-3) F, S

Prerequisite to student teaching in social studies. Objectives, methods, materials, curriculum in social studies in secondary schools. Includes consideration of new trends and new interpretations in the social sciences; development, present status, problems, and trends in the secondary school social studies curriculum; and professional growth of the social studies teacher. See listing under Division of Education for details.

749. Student Teaching in Social Sciences in the Secondary School (6) F, S

SOCIAL WELFARE

IN THE DIVISION OF THE SOCIAL SCIENCES

(Offered by the Department of Sociology)

311. Welfare Institutions (3) F

Prerequisite: Consent of the instructor. An introduction to the field, taught by an experienced social worker. Consideration of the philosophy, structure, functioning, and coordination of welfare agencies. Designed for students interested in social work and such related professions as teaching, counseling, public administration, law, medicine, and religious vocations.

351. Social Work Methods (3) S

Prerequisite: Social Welfare 311, Psychology 331 or Sociology 341 or consent of the instructor. An introduction to case work, group work, and community organization, using case work materials, group work experiences, workshops in community activities and interviewing techniques. Designed for candidates for graduate study and for pre-professional employment in agencies.

SOCIOLOGY

IN THE DIVISION OF THE SOCIAL SCIENCES

201. Introduction to Sociology (3) F, S

A general introduction to the basic concepts of sociology, and the scientific study of human society. Among topics included are social interaction, culture, personality, social processes, population, social class, the community, social institutions, and socio-cultural change.

202. Social Problems (3) F, S

Prerequisite: Sociology 201. Study of the extent, causes and consequences of a number of social problems, with emphasis on Twentieth Century America. Problems are viewed in the context of society as a whole.

271. Education for Marriage (3) S

A socio-psychological study of marital adjustment. Dating and mate selection; factors associated with successful marriages; principal areas of adjustment; parent-child relationships; causes and results of divorce; the family of tomorrow.

331A. Social Research Methods (3) F

Prerequisite: Sociology 201 or consent of the Department. Research design and methods of gathering data, especially by interview and questionnaire, are emphasized. Among other topics are the role of theory in research, and sampling methods and problems.

331B. Social Research Methods (3) S

Prerequisites: Sociology 201, 331A, or consent of the Department. Elementary statistical analysis of social data is emphasized, with some consideration of problems of measurement and of the writing of research reports.

341. Social Interaction (3) F

Prerequisites: Sociology 201 and 3 units of psychology. Inquiry into the social and socio-psychological dimensions of group behavior and the socialization of the individual. Social interaction and its impact on the individual and personality formation. Credit can be given for this course or Psychology 351, but not both.

348. Collective Behavior (3) S

Prerequisite: Sociology 201. Characteristics of crowds, mobs, publics. Analysis of social movements and revolutions, their relation to social unrest and their role in developing and changing social organization.

361. Population Problems (3) F

Prerequisite: Sociology 201. Population composition, growth and movement. Social factors affecting birth rates, death rates, and migration. Attention is given to the population of the United States and to selected areas of the world.

371. Urban Sociology (3) S

Prerequisite: Sociology 201. The population and ecology, patterns of growth, institutions, characteristic social interaction, values, and problems of the urban community.

411. Criminology (3) S

Prerequisite: Sociology 201. The extent, causes and control of criminal behavior. Includes study of the criminal law, causal factors and theories, correctional institutions, probation and parole, and preventive efforts.

413. Juvenile Delinquency (3) F

Prerequisite: Sociology 201. Juvenile delinquency as a social problem. Sociological study of the causes of delinquent behavior, and programs of control, treatment and prevention.

425. Comparative Social Change (3) S

Prerequisite: Sociology 201. Comparative analysis of changing community, institutional, technological, and social class patterns in selected societies, with emphasis on differences between "developed" and developing areas.

431. Minority Group Relations (3) F

Prerequisite: Sociology 201. Study of racial, national and religious minorities, especially in the United States. Includes study of discrimination, prejudice, different patterns of inter-group adjustment, and attempts to change group status.

436. Social Stratification (3) S

Prerequisite: Sociology 201. Social class structures and their functions. Different styles of life; determinants of class status; vertical social mobility; change in class systems.

451. Sociology of the Family (3) F, S

Prerequisite: Sociology 201. The family as a social institution. Historical and cross-cultural perspectives; social change affecting marriage and the family; analysis of American courtship and marriage patterns; the psychodynamics of family life.

465. Law and Society (3) F

Prerequisite: Sociology 201. The law and lawyers in the context of human society. Law as formal social control, variations in legal systems, social change and selected areas of law, the legal profession.

470. Sociology of Occupations (3) F

Prerequisite: Sociology 201. Sociological analysis of work roles in technologically advanced societies. Career patterns, occupational recruitment, job mobility, organizational demands. The nature and development of the professions, their ideologies and images.

473. Complex Organizations (3) S

Prerequisite: Sociology 201. Sociological analysis of formal organizations (industrial, governmental, welfare, military, medical, educational, correctional, etc.) as systems of social interaction. Includes such topics as blueprinted vs. informal structure, authority, decision-making, role conflicts, communication and morale.

477. Social Organization (3) F

Prerequisite: Sociology 201. Theories of social organization and the structure of various social groups are analyzed, with a comparative analysis of social structures and systems. The various levels of groups are discussed and interrelated.

480. Development of Social Thought (3) F

Prerequisite: Sociology 201. Social thought and civilization since early times; comparative study of the orientations of earlier writers towards the nature of man and society.

481. Contemporary Sociological Theory (3) 5

Prerequisite: Sociology 201 and consent of the Department. The main schools of sociological thought, both European and American, with emphasis on systematic theory, methodology of theorists, cultural change, and social institutions.

499. Independent Study (1-3) F, 5

Prerequisites: At least 12 hours of Sociology and consent of the adviser. Student selects an individual research project, either library or field. There are conferences with the adviser as necessary, and the work culminates in one or more papers. May be repeated for credit.

541. Seminar in Social Interaction (3) S

Prerequisites: Sociology 341 or consent of the Department. Advanced socialpsychological study of social interaction, including sociological factors in personality development and analysis of primary group behavior.

561. Seminar in Social Change (3) F

Prerequisite: Consent of the Department. Patterns and processes of social change, with opportunities for application to selected aspects of both advanced and newly developing societies.

599. Independent Study and Research (1-3) F, S (Formerly 500)

Prerequisite: Consent of the graduate adviser, and the Department. Individual research on either a library or empirical project, with conferences with the adviser as necessary, culminating in one or more papers. May be repeated for credit.

SPANISH

IN THE DIVISION OF HUMANITIES

(Offered by the Department of Foreign Languages and Literatures)

101. Fundamental Spanish (5) F, S

Intensive practice in listening-comprehension, speaking, reading and writing to develop control of the sounds and the basic forms and structure of Spanish. Audiolingual assignments are an integral part of the course and are to be prepared in the Language Laboratory.

102. Fundamental Spanish (5) F, S

Prerequisite: Spanish 101 (or equivalent). Intensive practice in listening-comprehension, speaking, reading and writing to develop control of the sounds and the basic forms and structure of Spanish. Audio-lingual assignments are an integral part of the course and are to be prepared in the Language Laboratory.

203. Intermediate Spanish (3) F

Prerequisite: Spanish 102 (or equivalent). Intensive practice in speaking, understanding, reading and writing based on cultural and literary materials. Linguistic analysis from sound to sentence. (3 hours lecture-discussion, 1 hour laboratory.)

204. Intermediate Spanish (3) 5

Prerequisite: Spanish 203 (or equivalent). Intensive practice in speaking, understanding, reading, and writing based on cultural and literary materials. Linguistic analysis from sound to sentence. (3 hours lecture-discussion, 1 hour laboratory.)

315. Introduction to Spanish Culture and Literature (3) F

Reading and discussion to develop insights into Spanish literature and culture while strengthening facility with the language. Open to lower division students with the consent of the instructor. Conducted in Spanish.

316. Introduction to Latin-American Literature (3) 5

Reading and discussion to develop insights into Latin-American literature and culture while strengthening facility with the language. Open to lower division students with the consent of the instructor. Conducted in Spanish.

317. Advanced Conversation and Composition (3) 5

Designed to give the student special competence in the control of Spanish as an instrument for free oral and written expression. Open to lower division students with the consent of the instructor. Conducted in Spanish.

400. Spanish for Advanced Students and Teachers (3) F, S

Intensive review of spoken Spanish, using recent developments in methodology and texts as subject material.

431. The Golden Age (3) F (Formerly 351)

The works of the major writers, including the Picaresque Novel, Lope de Vega, Tirso and Calderon. Conducted in Spanish.

441. Latin American Literature (3) S (Formerly 361)

The novel, essay and poetry from 1800 to the present. Conducted in Spanish.

451. Spanish Literature to the Golden Age (3) F

Cantar de Mio Cid and other epic poetry, the prose of Juan Manuel, the Renaissance lyrics of Garcilaso de la Vega, and La Celestina. Conducted in Spanish.

461. Spanish Literature Since Neoclassicism (3) 5

Representative works of the 19th and 20th centuries. Analysis of Romanticism, Eclecticism, Naturalism, Realism, and "Tremendismo." Conducted in Spanish.

466. Applied Linguistics in the Teaching of Spanish (3) F

Introduction to general linguistics with emphasis on the relation of speech and writing, the theory and practice of pronunciation, and the phonemic and morphophonemic structure of the language under study. (Same as French, German 466)

472. Senior Seminar: Cervantes (3) 5

Don Quixote and the Novelas ejemplares. Conducted in Spanish.

475. Senior Seminar: Contemporary Literature of Spain (3) F

The Generation of '98, the theatre of Benavente and Lorca, modernista and post-modernista poetry, and the "tremendista" novel. Conducted in Spanish.

499. Independent Study (1-3) F, S

Supervised projects in Spanish language or literature to be taken with the consent of the Department Chairman as a means of meeting special curricular problems. Selection of subjects to be studied varies. May be repeated for credit.

557. Graduate Seminar: Latin American Poetry (3) F

The modernismo movement. Conducted in Spanish.

567. Graduate Seminar: The Latin American Novel (3) S

Naturalism, Regionalism, and the novel of the Mexican Revolution. Conducted in Spanish.

SPEECH

IN THE DIVISION OF FINE AND APPLIED ARTS

101. Fundamentals of Speech (3) F, S

It provides the student with a basic understanding of the historical development of rhetoric and oral communication as well as with speaking experiences in such activities as discussion, oral reading, and public speaking. It is designed to help the student in the improvement of his personal speech habits and in his ability to listen with understanding and discrimination.

138A.B. Forensics (2,2) F, S,

Investigation and practice in the background, format, procedures, and evaluation criteria of the various forensic events. Students must participate in at least two intercollegiate tournaments.

202. Voice and Diction (2) F, S

The study of the principles and practice of correct sound formation, voice production, and manner of speaking.

231A,B. Essentials of Public Speaking (3,3) F, S

Prerequisite: Speech 101, a high school speech course, or consent of instructor. The composition and delivery of talks to inform and to persuade. Investigation of the principles and theory of presentation in various types of speech situations. Second semester emphasizes argumentation.

301. Speech for Teachers (3) F, S

This course is designed to help teachers to use speech and dramatized activities effectively in the classroom. The normal speech development of children is examined, and consideration is given to the identification and handling of speech, hearing, and listening problems.

333. Business and Professional Speaking (3) F, S

Prerequisite: Speech 231A or equivalent, organization responsibilities, or consent of instructor. Particular attention is given to the interview, speeches for special occasions, information giving, and business conferences.

334. Advanced Public Speaking (3) F, S

Prerequisite: 231A or equivalent. Investigation of the problems and techniques of a series of speeches directed toward a predetermined goal: emphasis on progressive use of persuasive materials.

335. Argumentation and Debate (3) 5

Prerequisite: 231B. Argumentation as applied to formal speaking and debate. Special attention is given to logic and evidence as related to analysis of significant questions for debate; case structure, and refutation.

338A,B. Forensic Workshop (2,2) F, S

Directed activity in debate and other forensic events. Participation in intercollegiate competition is required for credit. (May be repeated for a total of eight units.)

341. Phonetics (3) F

The study of the history and theory of speech sounds based on the use of the International Phonetic Alphabet and the various factors influencing articulation and pronunciation.

351. Speech Science (3) S

Anatomy and physiology of the speech and hearing mechanisms.

403. Speech Development (3) F, S

Study of language and speech development and disorders, and psychological aspects of oral communication. Meets the language and speech development and disorders requirement for specialized preparation to serve as teachers of exceptional children.

404. General Semantics (2) S

An examination of the basic principles underlying the influence of language on human action and interaction.

424. Discussion and Group Leadership (3) F, S

The principles and practices of small groups in discussion with special emphasis on committee work, sensitivity training, problem solving and preparation for group consideration of ideas in education, business, and community.

434. American Public Address (3) S

Prerequisite: Six units of upper division speech. A rhetorical history of the United States from the colonial period to the present. The influence of selected speeches and speakers on the development of American culture.

436. Survey of Rhetoric (3) F

Prerequisite: Six units of upper division speech. A survey of ancient, medieval and modern rhetoric.

441. Introduction to Speech Correction (3) F, S

Prerequisite: Speech 341. Speech correction with special emphasis on the identification of the most commonly experienced speech problems; basic principles of therapy in the clinic and in the classroom; importance of referral, parent conferences, mental health, etc.

443. Advanced Speech Correction (3) F, S

Prerequisite: Speech 441 or equivalent. Etiologies, diagnosis, and remedial procedures of speech defects and voice problems, both functional and organic, and certain major disorders including stuttering, cleft palate, cerebral palsy, aphasia, and tongue thrust.

444. Persuasion (3) S

Prerequisite: Six units of upper division speech. The study and application of psychological principles used by writers and speakers to effect social control: audience analysis and the use of persuasive techniques to influence the thought and behavior; the function of ethos.

451. Diagnostic Methods in Speech and Hearing (3) F

Prerequisite: Speech 443 or concurrent registration in Speech 443 or consent of instructor. Provides the student with information about various diagnostic procedures that can be used by him and in consultation with members of related disciplines: psychologist, pediatrician, otologist, orthodontist, neurologist.

452. Therapeutic Procedures in Speech and Hearing (3) S

Prerequisite: Speech 443 or concurrent registration in Speech 443 or consent of instructor. Observation and supervised experience in recommended procedures and use of instructional aids with speech-handicapped children, including the preparation and utilization of speech correction and speech improvement materials.

458. Clinical Practice (2) F, S

Prerequisite: Speech 451 or 452 or concurrent registration in one of the courses, and approved application for clinical practice. Practice in the correction of speech in children and adults under supervision. May be repeated for a total of 8 units.

461. Audiometry and Aural Rehabilitation (3) F

Prerequisite: Speech 351, 441, or consent of instructor. Equipment, principles, methods and procedures used in conducting school and industrial hearing conservation programs. Attention is given to techniques of audiometric testing and the use of audiograms. Care and use of audiometers, both air-conduction and bone-conduction. Partially fulfills the state requirements for public school audiometrist.

462. Speech Reading (2) S

Prerequisite: Speech 341 or consent of instructor. Historical backgrounds of lip reading, methods used in visual reading of speech, and the techniques commonly used in the teaching of speech reading to the aurally handicapped.

463. Audiology (3) S

Prerequisite: Speech 351, 441, or consent of instructor. The nature of auditory functioning, physical and psychological. A detailed consideration of the anatomy of the auditory mechanism, pathological changes and medical treatment. A survey of the rehabilitation facilities for the aurally handicapped; e.g. agencies, hearing aids, auditory training, speech reading, etc.

499. Independent Study (1-3) F, S

Open to advanced students in Speech with the consent of the department chairman. May be repeated for credit.

557A-G. Seminar in Speech Problems (2) F, S

Prerequisite: Consent of Instructor. May be repeated for a total of 14 units, but no individual seminar may be repeated for credit: A. Cleft Palate, B. Stuttering, C. Aphasia, D. Cerebral Palsy, E. Aphasoid Child, F. Voice Disorders, G. Articulation Problems.

SPEECH EDUCATION

IN THE DIVISION OF FINE AND APPLIED ARTS

(Offered by the Department of Speech)

442. Teaching Speech in the Secondary School (2-3) F

Prerequisites: Education Found. 311, Education Sec. 340, senior standing, or consent of the instructor. Objectives, methods, and materials for teaching speech in secondary schools. Required, before student teaching, of students presenting majors in speech for the Standard Teaching Credential. Students without teaching experience must register for three units credit, and must allow sufficient time in their schedules, at the same hour each day, so that they may serve as teacher aides in secondary schools.

Clinical Practice and Student Teaching in Speech Correction and Lip Reading (4) F, S

Prerequisites: Education Found. 311 and 24 units in the area of speech and hearing therapy. Provides the student with the necessary skills and knowledges to work with speech and hearing handicapped children in the public schools. Experiences include working in small groups and in individual therapy sessions with speech and hearing handicapped children enrolled in regular school classes, participation in parent counseling conferences and conferences with school personnel including administrators, classroom teachers, and nurses. Planning of curriculum materials to integrate speech and hearing therapy with regular classroom instruction will be stressed. This meets the directed teaching requirement for the credential to teach speech and hearing handicapped in remedial classes.

749. Student Teaching in Speech in the Secondary School (6) F, S

See page 156 under Secondary Education for description and prerequisites.

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A52. Speech Reading (2):

Personalize: Spreech 341 or consent of agreeror. Historical backgrounds of the reaching, methods used in visual scaling of speech and used to the reaching of speech reading to the autists homographed.

(Year in parenthesis indicates date of appointment)

LANGSDORF, WILLIAM B. (1959), President and Professor of History

B.A., M.A., Occidental College: Ph.D., University of California ADAMS, PHILLIP A. (1963), Assistant Professor of Biology

B.S., University of California; M.A., Ph.D., Harvard University

ADAMS, RAYMOND V. (1960), Professor of Physics and Chairman, Physics Department

B.S., Kansas State University; Ph.D., California Institute of Technology

ALAMSHAH, WILLIAM H. (1959), Professor of Philosophy and Chairman, Philosophy Department

M.A., Claremont Graduate School; Ph.D., University of Southern California

ALEXANDER, JAMES P. (1960), Associate Professor of Journalism

B.A., M.S., University of Southern California

ALLEN, HOLLIS P. (1960), Professor of Education and Coordinator of Graduate Studies

B.A., Pomona College; M.A., Ed.D., Stanford University; LL.D., Claremont Graduate School AMES, DENNIS B. (1960), Professor of Mathematics and Chairman, Mathematics Department B.A., M.A., Bishop's University; Ph.D., Yale University

ANDERSEN, MARTIN P. (1965), Professor of Speech

B.A., M.A., Ph.D., University of Wisconsin

ASHLEY, THOMAS J. (1961), Assistant Professor of Political Science

B.A., Fresno State College; Ph.D., Claremont Graduate School

AUSTIN, DON D. (1963), Assistant Professor of English

B.A., M.A., University of Redlands; Ph.D., University of Washington

BACON, JUNE (1962), Librarian II

B.A., University of California; M.S. in L.S., University of Southern California

BADOUX, LAURENT (1964), Lecturer of German Ph.D., University of Zurich

BALDWIN, HELEN W. (1964), Librarian II

B.S., University of Illinois; A.M. in L.S., University of Michigan

BARRES, STEPHEN J. (1961), Associate Professor of Labor Relations and Management, and Chairman, Management Department

B.A., Texas Western College; M.S., Ph.D., Purdue University

BARRETT, JEAN A. (1963), Assistant Professor of Physical Education

B.S. Cortland State Teachers; Ed.M., University of Buffalo

BEATON, CHARLES (1964), Assistant Professor of Quantitative Methods

B.A., Willamette University

BECK, WARREN A. (1961), Associate Professor of History

B.A., M.A., Wayne University; Ph.D., Ohio State University BECKER, ERNEST A. (1959), Dean of Students and Associate Professor of Philosophy

B.A., Amherst College; B.D., Hartford Theological Seminary; M.A., Ed.D., University of Southern California

BELL, CHARLES (1964), Assistant Professor of Political Science

B.A., Pomona College; M.A., University of Southern California

BELLOT, LELAND (1964), Assistant Professor of History B.A., Lamar State College; M.A., Rice Institute

BLANCHARD, MILTON C. (1961), Building Coordinator

B.S., M.Ed., Tufts University

BLEECKER, EUGENE (1964), Assistant Professor of Education

B.A., M.A., San Diego State College; Ph.D., University of Wisconsin

BLEND, HARVEY (1963), Professor of Physics

B.S., University of Texas; M.S., Ph.D., University of California, Los Angeles

BONAZZA, BLAZE (1964), Associate Professor of English

B.A., Cornell University; M.A., Los Angeles State College; Ph.D., University of Southern California

BRATTSTROM, BAYARD H. (1960), Associate Professor of Zoology

B.S., San Diego State College; M.A., Ph.D., University of California, Los Angeles

BRICKEY, MARY L. (1963), Librarian II B.A., M.S. in L.S., University of Illinois

BRIDGMAN, DONALD C. (1960), Professor of Education and Acting Chairman, Foundations of Education Department

B.A., Chapman College; M.S., Ed.D., University of Southern California

BRISTOW, RONALD M. (1959), Associate Dean of Students, Activities, and Instructor in Education

B.A., M.S., University of Southern California

BROCKMANN, LOUIS O. (1963), Professor of Education, and Chairman, School Services Department

B.A., M.A., Ph.D., University of Wisconsin

BROWN, EDWARD D. (1963), Assistant Professor of Drama B.A., Louisiana State University; M.A., Michigan State University; Ph.D., University of Denver BROWN, GILES T. (1960), Professor of History, Chairman, Division of Social Sciences, and

Chairman, History Department B.A., San Diego State College; M.A., University of California; Ph.D., Claremont Graduate

School

BRUNELLE, EUGENE A. (1962), Assistant Professor of English

B.A., Harvard College; M.S., Simmons College; M.A., University of California

BRYDEN, JOHN H. (1961), Professor of Chemistry and Chairman, Chemistry Department B.S., College of Idaho; M.S., California Institute of Technology; Ph.D., University of California, Los Angeles

BUCK, CHARLES W. (1964), Counselor in Counseling and Testing, and Assistant Professor A.B., Occidental College; M.A., University of Oregon BURKE, MAX W. (1960), Director of Placement Services and Assistant Professor of Education B.A., University of Iowa; B.D., Colgate-Rochester Divinity School

CALHOUN, ROLAND L. (1961), Assistant Professor of Psychology B.A., Claremont Men's College; M.A., Ph.D., University of Michigan CARLSON, RAE S. (1961), Assistant Professor of Psychology

B.A., University of Nebraska; M.S., University of Washington; Ph.D., University of Michigan CARR, EDWIN R. (1960), Professor of Education
B.A., Jamestown College; M.A., Columbia University; Ph.D., University of Minnesota
CHEN, WILLIAM P. (1960), Librarian IV

B.A., National Wu-han University, China; M.S. in L.S., M.A., Ph.D., University of Illinois COLMAN, RONALD (1964), Systems Analyst for College Computer Center and Lecturer of **Business Statistics**

B.A., University of California at Los Angeles

COOK, BEVERLY B. (1962), Assistant Professor of Political Science

B.A., Wellesley College; M.A., University of Wisconsin; Ph.D., Claremont Graduate School

COPPOLINO, IDA S. (1960), Associate Professor of Education
B.S., University of Utah; M.A., New York University; Ed.D., University of California, Los Angeles

CROY, HAZEL M. (1960), Associate Professor of Education

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CUMMINGS, SHERWOOD P. (1963), Associate Professor of English B.S., University of Illinois; M.A., Ph.D., University of Wisconsin

CUSICK, JAMES W. (1961), Associate Professor of Education, Coordinator of Secondary Education and Chairman, Secondary Education Department

B.S., Montana State College; M.A., Washington State University; Ph.D., University of Minnesota

DAVIS, BARBARA E. (1960), Librarian III

B.S., Carnegie Institute of Technology; B.Mus., University of Wisconsin; M. in L.S., Carnegie Library School

DAVIS, F. JAMES (1962), Professor of Sociology and Chairman, Sociology Department B.A., Ph.D., State University of Iowa

de GRAAF, LAWRENCE B. (1959), Associate Professor of History

B.A., Occidental College; M.A., Ph.D., University of California, Los Angeles

DENNO, RAYMOND E. (1961), Audio-Visual Coordinator and Professor of Education

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DIETZ, NAOMI G. (1960), Associate Professor of Art

B.S., Whitworth College, M.A., Teachers College, Columbia University DITTMAN, ROGER (1964), Associate Professor of Physics

B.A., University of California, Santa Barbara; M.S., University of Delaware DOANE, KENNETH R. (1960), Professor of Education and Chairman, Division of Education B.S., Wisconsin State College, La Crosse; M.S., Ph.D., University of Wisconsin

DONOGHUE, MILDRED R. (1962), Assistant Professor of Education

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DUERR, EDWIN (1964), Lecturer of Drama

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Faculty and Administration

EARICK, ARTHUR D. (1960), Associate Professor of Geography and Chairman, Geography Department

B.A., Indiana University; M.A., Ph.D., University of Michigan

EDWARDS, RICHARD (1964), Assistant Professor of English B.A., University of California, Santa Barbara; M.A., Yale University

EHMANN, GERHARD E. (1959), Dean of Educational Services and Summer Session, and Professor of Education

B.A., Occidental College; M.A., Ed.D., University of California, Los Angeles

* ELLERY, LAWRENCE F. (1963), Assistant Professor of Management

B.A., Oberlin College; M.S., University of Illinois

ETUE, GEORGE E., (1963), Assistant Professor of History B.A., Union College; M.A., Ph.D., University of California

EVIENTH, HENRY A. (1964), Instructor of Art

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FAIA, MICHAEL (1964), Assistant Professor of Sociology

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FELDMAN, DAVID (1964), Associate Professor of Spanish

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FELDMAN, ROBERT (1964), Assistant Professor of History

B.S., Illinois State University; M.A., Indiana University
FESSENDEN, SETH A. (1959), Professor of Speech and Chairman, Speech Department

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FIERMAN, MORTON C. (1963), Associate Professor of Education B.A., Western Reserve University; M.H.L., Hebrew Union College; M.A., Tulsa University; Ed.D., Arizona State University

FITZPATRICK, MARY (1964), Assistant Professor of Economics B.A., Tufts College; M.A., Stanford University

FOSTER, JULIAN F. S. (1963), Assistant Professor of Political Science

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B.A., Augustana College; M.A., Ph.D., State University of Iowa GRANELL, LEE E. (1960), Assistant Professor of Speech

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GRAVES, LEVERN F. (1960), Associate Professor of Economics

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GRAY, J. JUSTIN (1961), Associate Professor of Music

B.Mus., University of Michigan; M.Mus., Eastman School of Music; D.Mus., University of Southern California

GREENWOOD, JOAN V. (1963), Assistant Professor of English

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HARTSIG, BARBARA A. (1959), Professor of Education, Coordinator of Elementary Education and Chairman, Elementary Education Department

B.A., Occidental College; M.S., University of Southern California; Ed.D., University of California, Los Angeles

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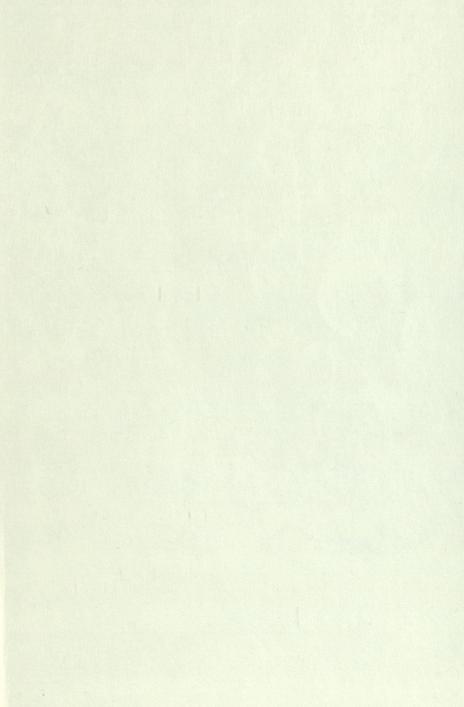
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